

April 15, 2016

Remediation and Reuse Branch Land and Chemicals Division United States Environmental Protection Agency, Region 5 77 West Jackson Boulevard, LU-9J Chicago, IL 60604

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Subject:

Progress Report, Fourth Quarter 2015 and First Quarter 2016

MAHLE Behr Properties Management, LLC

250 Northwoods Blvd.

Vandalia, Ohio

US EPA ID #OH0 000 048 454

Dear Ms. Greensley:

This submittal constitutes the progress report for work undertaken during the Fourth Quarter of 2015 and First Quarter of 2016, related to the above-referenced Facility. As you are aware, MAHLE Behr Properties Management, LLC ("MAHLE") acquired the Vandalia Facility from Delphi Automotive Systems, LLC ("Delphi") on June 30, 2015. The work described herein includes ongoing activities undertaken by MAHLE in accordance with the Delphi Automotive Systems LLC ("Old Delphi") RCRA 3008(h) Administrative Order on Consent, Docket No. R8H-5-02-001, January 22, 2002. MAHLE, pursuant to the terms of the purchase agreement between MAHLE and Delphi, has continued to operate the system and manage the project while MAHLE and the United States Environmental Protection Agency ("EPA") negotiate a new Administrative Order on Consent.

Work Performed Fourth Quarter 2015 (October 1, 2015 – December 31, 2015) and First Quarter 2016 (January 1, 2016 – March 31, 2016)

- Groundwater samples from fifty-two (52) monitoring wells, consisting of six (6) Top-of-Rock, one (1) Middle Brassfield, fourteen (14) Sugar Rock, and thirty-one (31) Overburden locations, were collected and analyzed during the First Quarter 2016 as part of the routine sampling program (Figure 1, Tables 1 and 2).
- Surface water samples from two (2) locations along the unnamed tributary of North Creek and nine (9) Sugar Rock spring locations were collected and analyzed during the Fourth Quarter 2015 and First Quarter 2016 (Figures 2 and 3, Table 3).
- Conducted six (6) rounds of Sugar Rock and Intermediate Bedrock water level measurements, two (2) rounds of Top-of-Rock water level measurements, and two (2) rounds of Overburden water level measurements (Figures 4-17; Attachment A).
- Collected and analyzed monthly samples from groundwater migration control system monitoring points, including Sugar Rock and Overburden (Water Table/First Sand and Second Sand) influent streams prior to treatment, and treated groundwater effluent for NPDES compliance (Table 4).
- Sampled a private potable water well at 10440 Cassel Road on October 29, 2015, as part of ongoing semi-annual monitoring at this location.

- Transmitted results of private well sampling at 10440 Cassel Road to the property owner. Results show no detections of constituents of concern.
- Continued to operate the groundwater migration control system. Fourth Quarter 2015 and First
 Quarter 2016 monthly discharge reports, system activity logs, site inspection checklists, and system
 shutdown reports are included in Attachments C-F, respectively.
- Replaced the granular activated carbon (GAC) pump (handling discharge from the air stripper sump) and removed solids accumulation in the influent port to the air stripper float control assembly on November 20, 2015.
- Replaced Second Sand groundwater recovery well pump on March 17, 2016.
- Performed an acid chemical wash of the air stripper and associated piping on March 21, 2016.
- Continued to monitor water levels in the Top-of-Rock interval using pressure transducers as part of an evaluation of recently observed changes in groundwater flow patterns. Transducers were deployed in five selected Top-of-Rock wells on November 6, 2015. Collection and review of data are continuing.
- Continued discussions with Spears Property Management (Spears) regarding long-term access to their property, including planned installation of one new overburden monitoring well (referenced as Well A in the 2013 Three-year Assessment) and long-term monitoring of groundwater and surface water. This property consists of approximately 17.2 acres located northeast of the intersection of Northwoods Blvd. and Dixie Drive between the (Pilot) Flying J Travel Center and the Dayton International Airport. Twelve existing monitoring wells and one surface water sampling point are located on this property. Although Spears had initially indicated that they planned to develop the property as a truck terminal and warehouse, they now indicate that the property is for sale. Continued access for monitoring on this property is provided through the existing Environmental Covenant recorded March 11, 2008. A proposed "Right of Access Agreement" was sent to Spears on August 11, 2015 via email, fax, and USPS, but MAHLE has yet to receive a response regarding the submission. A follow-up email was sent December 7, 2015, but again, there has been no response. MAHLE will continue to periodically pursue an access agreement with Spears covering installation of the new well and long-term access for monitoring, although given Spear's lack of response to MAHLE, and to Delphi before that, it is unlikely that further attempts will elicit a response.
- Completed delineation of PCBs in subslab soils in the western portion of the site during the week of December 7, 2015. The work consisted of nine (9) Geoprobe borings advanced to a depth of approximately ten feet below ground surface.
- Conducted two rounds of sampling associated with investigation of intermittent elevated TCE concentrations in the unnamed tributary to North Creek. December 2015 sampling included collection of ten (10) grab samples covering surface water, storm sewer discharges to the Post 3 junction box, and related storm sewer manholes. An additional round of sampling during March 2016 included thirteen (13) grab samples.

 Conducted short-duration pumping tests at Top-of-Rock wells MW-422S and MW-424S between late September and early October, 2015. This preliminary testing was conducted to support evaluation of remedial alternatives to potentially reduce VOC concentrations in the Top-of-Rock zone and to shorten the duration of groundwater migration control activities.

Data Collected

- Groundwater samples were collected from fifty-two (52) monitoring wells during First Quarter 2016 and analyzed for VOCs. The analytical results for groundwater sampling during the First Quarter 2016 are included in Table 2. The First Quarter 2016 TCE concentrations in Sugar Rock groundwater are shown on Figure 18.
- Analytical results for surface water samples collected at the unnamed tributary to North Creek and Sugar Rock outcrop springs are included in Table 3. Surface water TCE results are illustrated on Figure 2; Sugar Rock spring TCE and DCE results are shown on Figure 3.
- Analytical results for monthly migration control system samples are presented in Table 4.
- Forty-five (45) soil samples were collected from nine (9) soil borings to complete delineation of PCBs at concentrations exceeding 1 mg/kg in soils under the former Building 31 concrete slab. Results will be summarized in a separate report.
- Ten (10) samples were collected from surface water, storm sewer outfalls, and manholes during one
 round of sampling in December 2015, related to investigation of intermittent elevated TCE
 concentrations in the unnamed tributary to North Creek. Thirteen (13) samples were collected during a
 subsequent round of sampling during March 2016. Results will be summarized in a separate report
 after completion of the investigation.

Performance Evaluation and Problems Encountered

- The bedrock groundwater migration control system was operational for approximately 92% of the Fourth Quarter 2015 and First Quarter 2016. System downtime was related primarily to maintenance issues including: backwashing of the carbon filters, restriction of flow between the air stripper sump and float control, replacement of GAC pump, performance of an acid wash, modifications of piping, repairs of hose fittings, and failure of a building sump pump. The primary downtime of 10 days was caused by high water levels in the air stripper sump resulting from a buildup of solids in the float control assembly. After cleaning of the float control influent port, system uptime has been approximately 97%.
- DNAPL recovery wells were inspected for the presence of DNAPL in both the Fourth Quarter 2015 and First Quarter 2016. Based on bailer checks, no wells contained visible DNAPL; accordingly, no DNAPL recovery was performed during these quarters.
- Results from ten (10) groundwater monitoring samples collected during First Quarter 2016 were
 flagged due to exceedance of holding times related to data entry errors and computer problems at the
 analytical laboratory. Detections in these samples were flagged as "J-" values (estimated results,
 biased low); non-detect results were flagged as rejected.
- The Second Sand recovery well pump failed on December 23, 2015. This pump has typically been replaced on a frequency of approximately 14 months. An engineering review of the cause of the

failures indicates that the pumps were oversized and prone to overheating when valved back to reduce flow rates. A smaller-capacity pump has been installed and is currently in operation. This change is expected to increase the future operating life of the Second Sand pump.

- A new planned overburden well, identified in the sampling schedule as Well A, has not yet been installed. Installation of this well, to be located on Spears property north of Northwoods Blvd., has been delayed pending finalization of an access agreement with the property owner. MAHLE will continue to work with Spears to secure approval to install the well.
- Shifting patterns of groundwater flow in the Top-of-Rock interval are currently being evaluated using pressure transducers, which have been deployed in five Top-of-Rock wells. Since January, 2014, a hydraulic low related to downward flow of groundwater from the Top-of-Rock interval to the Sugar Rock interval (where it is captured by the Groundwater Migration Control System) appears to have shifted. Prior to this date, the center of this feature was located near MW-424S, which consistently exhibited the lowest water level compared to surrounding Top-of-Rock wells. Since this date, MW-423S has exhibited the lowest water level in the immediate vicinity. A surface geophysical survey is planned to attempt to identify the nature and location of the inferred vertical conduit (possibly an abandoned water supply well) allowing downward groundwater flow. The outcome of this work will be presented to the EPA in a separate document at a future date.
- Fluctuating TCE concentrations have been observed at MW-413D, located approximately 600 feet north of the deep bedrock recovery well. Prior to 2012, groundwater samples from this well, located within the capture zone of the deep bedrock recovery well, typically contained TCE at concentrations ranging from non-detect to 500 ug/l. Since 2012, however, concentration peaks of 1,400, 1,500, and 7,600 ug/l have occurred between July 2012 and May 2015. Corresponding concentration peaks of 530, 960, and 2,900 ug/l, respectively, have also been observed for cis-1,2-DCE. Concentrations at MW-413D have recently returned to historical levels, with the most recent groundwater sample, collected in January 2016, containing TCE at 0.22 ug/l and cis-1,2-DCE at 9.0 ug/l. The cause of the concentration peaks is uncertain, but may be related to expansion and contraction of the bedrock plume near the recovery well as the balance between recharge to the Sugar Rock aguifer and pumping at the recovery well fluctuates seasonally. The recent return to low VOC concentrations at MW-413D may be related to increased pumping in the deep bedrock recovery well enabled by recent corrections to the float control assembly on the air stripper sump. It is important to note that VOC concentrations in nearby downgradient bedrock wells have exhibited no significant changes during the period of pronounced concentration fluctuations at MW-413D. The next sampling of MW-413D is planned for the Fourth Quarter, 2016.
- VOC concentrations above historical ranges have been detected in groundwater samples from Top-of-Rock well MW-425S, located north of Northwoods Blvd. on Pilot property. While concentrations of TCE are typically below 400 ug/l in this well, the most recent three samples collected from this well in 2015 and 2016 had TCE concentrations ranging from 470 to 701 ug/l. Concentrations of cis-1,2-DCE were similarly elevated, ranging from 320 to 410 ug/l. While potentiometric surface maps indicate that MW-425S falls within the capture zone of the Top-of-Rock groundwater depression, concentration trends in this well will continue to be closely monitored. VOC concentrations at downgradient wells MW-426S and MW-446SR remain below or near detectable limits for VOCs.
- Rising VOC concentrations have been observed at Water Table monitoring well MW-806. While
 historical VOC concentrations in this well have been at or near detectable limits, concentrations in
 groundwater samples collected between 2014 and 2016 have exhibited pronounced rising trends for
 several compounds. Concentrations of cis-1,2-DCE have risen from below detectable limits to 16,000

ug/l in the most recent sample collected in February, 2016. Also, concentrations of 1,1-DCA and vinyl chloride have risen from below detectable limits to 290 ug/l and 36 ug/l, respectively, in the most recent sample. Recently installed downgradient monitoring well MW-814, which is screened across the Water Table and First Sand intervals, has shown no detections of VOCs. The rising concentration trends at MW-806 suggest locally changing site conditions – a topic that will be discussed further in the upcoming Three-Year Assessment Report for the facility.

 Intermittent elevated VOC concentrations have been observed in surface water samples collected from the unnamed tributary to North Creek. The series of concentration peaks, which typically occur during wetter seasons, exhibit a generally increasing trend in VOC concentrations. An investigation to identify possible sources of VOCs in surface water is currently in progress.

Project Schedule

An updated project schedule is included in Attachment G.

Feel free to contact me at (248) 743-3758 if you have any questions or require additional information.

Sincerely,

James Hunt

Project Manager for MAHLE Behr Properties, LLC

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MAHLE Industries, Inc.

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Enclosures:

Tables

- 1 2015-2016 Groundwater Sampling/Water Level Measurements
- 2 Fourth Quarter 2015 and First Quarter 2016 Analytical Results, Overburden and Bedrock Monitoring Wells
- Fourth Quarter 2015 and First Quarter 2016 Analytical Results, Surface Water and Sugar Rock Spring Samples
- Fourth Quarter 2015 and First Quarter 2016 Performance Monitoring Analytical Data, Groundwater Migration Control System

Figures

- 1 First Quarter 2016 Wells Sampled
- 2 Fourth Quarter 2015 and First Quarter 2016 TCE in Surface Water
- 3 Outcrop Survey, January 2016, Spring Sample Locations, TCE and DCE Results
- 4 Potentiometric Surface Contours, Shallow Water Table Zone, 16 October 2015
- 5 Potentiometric Surface Contours, Shallow Water Table Zone, 7 January 2016
- 6 Potentiometric Surface Contours, First Sand Zone, 16 October 2015
- 7 Potentiometric Surface Contours, First Sand Zone, 7 January 2016
- 8 Potentiometric Surface Contours, Second Sand Zone, 16 October 2015
- 9 Potentiometric Surface Contours, Second Sand Zone, 7 January 2016
- 10 Potentiometric Surface Contours, Top of Bedrock Zone, 14 October 2015
- 11 Potentiometric Surface Contours, Top of Bedrock Zone, 15 January 2016
- 12 Deep Bedrock Potentiometric Surface Contours, 12 October 2015
- 13 Deep Bedrock Potentiometric Surface Contours, 24 November 2015
- 14 Deep Bedrock Potentiometric Surface Contours, 16 December 2015
- 15 Deep Bedrock Potentiometric Surface Contours, 12 January 2016
- 16 Deep Bedrock Potentiometric Surface Contours, 17 February 2016
- 17 Deep Bedrock Potentiometric Surface Contours, 2 March 2016
- 18 First Quarter 2016 TCE in Sugar Rock

Attachments

- A Water Level Measurements
- B Data Usability Summary Reports
- C Groundwater Migration Control System Monthly Discharge Reports
- D Groundwater Migration Control System Activity Log
- E Groundwater Migration Control System Inspection Checklists
- F Bedrock Groundwater Migration Control System Shutdown Reports
- G Project Schedule

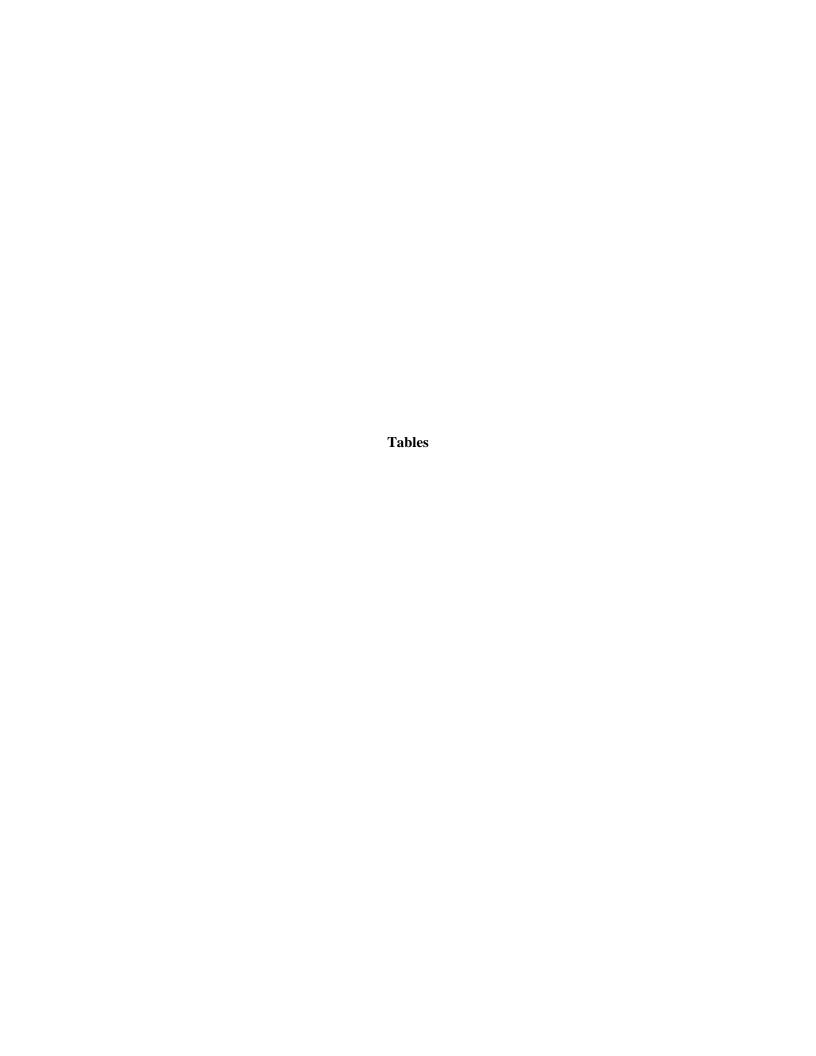


TABLE 1 2015-2016 GROUNDWATER SAMPLING / WATER LEVEL MEASUREMENTS MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Sam	ทยาทศ	

Location	Unit	Frequency	4Q-2015	1Q-2016	2Q-2016	3Q-2016
CSX-18D	SR	15 months		√		
MW-402D	SR	15 months		√		
MW-411D	SR	15 months		√		
MW-412D	SR	15 months		✓		
MW-413D	SR	9 months		✓		
MW-416D	SR	9 months		✓		
MW-417D	SR	9 months		√		
MW-418D	SR	9 months		√		
MW-420M	MB	9 months		√		
MW-420D	SR	9 months		√		
MW-424D	SR	15 months		√		
MW-434D	SR	15 months		√		
MW-435D	SR	15 months		√		
MW-444D	SR	15 months		✓		
MW-453D	SR	15 months		√		
	1	. 5	-	ı		1
MW-301S	TOR	15 months		√		
MW-415S	TOR	15 months	-	√		
MW-425S	TOR	9 months	-	√		
MW-426S	TOR	15 months	-	· ·		
MW-445S	TOR	15 months	-	· ·		
MW-446S	TOR	15 months		· /		
10100	TOIL	15 months	I	•		
MW-784	WT	15 months	1	√		
MW-806	WT	9 months		· /		
MW-810	WT		+			
MW-607	WT/S1	9 months	-	<i>-</i>		
MW-729	WT/S1	9 months	-	<i>'</i>		
MW-734	WT/S1	15 months	-	V ✓		
_		15 months	_	V		
MW-775	WT/S1	9 months	-			
MW-793	WT/S1	15 months		V		
MW-796	WT/S1	15 months		V		
MW-776	WT/S1	9 months		V		
VPW-103	WT/S1	15 months				
MW-730	S1	9 months		√		
MW-732	S1	9 months		√		
MW-809	S1/S2	15 months		√		
MW-787	WT	15 months		√		
MW-715	S1	15 months		√		
Well A*	S1	9 months		√		
MW-814	WT/S1	9 months		√		
MW-815	WT/S1	9 months		✓		
MW-515	S2	15 months	1	· ·	I	1
		15 months		V		
MW-605	S2	9 months				
MW-717	S2	9 months		✓		
MW-725	S2	9 months		√		
MW-731	S2	9 months		√		
MW-740	S2	9 months		✓		

MW-741 S2 9 months MW-742 S2 15 months S2 MW-743 9 months MW-746 S2 15 months MW-759 S2 9 months MW-800 S2 9 months MW-807 S2 15 months

SW-1	North Creek	Quarterly	✓	√	✓	✓
SW-4	North Creek	Quarterly	√	✓	✓	✓
B005	SR Spring	9 months		✓		
B006	SR Spring	9 months		✓		
C001	SR Spring	9 months		✓		
D001	SR Spring	9 months		✓		
E001	SR Spring	9 months		✓		
E002	SR Spring	9 months		✓		
F001	SR Spring	9 months		✓		
G004	SR Spring	9 months		✓		
G006	SR Spring	9 months		✓		

Water Level Measurements

Unit	Frequency
All SR / MB wells	Monthly
All TOR wells	Quarterly
All Overburden wells	Quarterly

Unit Key

Unit	Description
WT	Water Table
S1	First Sand
S2	Second Sand
TOR	Top Of Rock
MB	Middle Brassfield
SR	Sugar Rock

Notes:

 * Denotes wells to be installed and their sampling schedule. Actual well nomenclature will be made after installation.

TABLE 2
FOURTH QUARTER 2015 & FIRST QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Loc	cation CSX-18D	MW-301S	MW-402D	MW-411D	MW-412D	MW-412D	MW-413D	MW-415S	MW-415S
Sample	Date 02/03/2016	01/27/2016	01/29/2016	01/29/2016	01/29/2016	01/29/2016	01/27/2016	01/26/2016	01/26/2016
	SR	TOR	SR	SR	SR	SR	SR	TOR	TOR
Sample	Type N	N	N	N	N	FD	N	N	FD
Volatile Organic Compounds (ug/L)									
1,1,1-Trichloroethane	1 R	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1
1,1-Dichloroethane	1 R	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1
1,1-Dichloroethene	1 R	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1
Acetone	10 R	< 10	< 10	< 200	< 100	< 80	< 10	< 10	< 10
Benzene	1 R	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1
Chloroethane	1 R	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1
Chloroform (Trichloromethane)	1 R	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1
cis-1,2-Dichloroethene	8.9 J-	< 1	< 1	510	13	13	9	1	1
trans-1,2-Dichloroethene	1 R	< 1	< 1	14 J	3.8 J	3.2 J	< 1	< 1	< 1
Trichloroethene	1 R	< 1	< 1	420	220	210	0.22 J	0.74 J	0.69 J
Trichlorofluoromethane (CFC-11)	1 R	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1
Vinyl chloride	0.3 J-	< 1	< 1	< 20	< 10	< 8	< 1	< 1	< 1

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- J-: Estimated result, biased low
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 2
FOURTH QUARTER 2015 & FIRST QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Location	MW-416D	MW-417D	MW-417D	MW-418D	MW-420D	MW-420M	MW-424D	MW-425S	MW-426S
S	Sample Date	02/02/2016	02/02/2016	02/02/2016	02/02/2016	01/26/2016	01/26/2016	01/29/2016	01/28/2016	01/27/2016
		SR	SR	SR	SR	SR	MB	SR	TOR	TOR
Si	ample Type	N	N	FD	N	N	N	N	N	N
Volatile Organic Compounds (ug/L)										
1,1,1-Trichloroethane		< 2	< 1.3	< 1.3	< 1	< 22	< 25	< 3.3	< 20	< 1
1,1-Dichloroethane		< 2	< 1.3	< 1.3	1.1	< 22	< 25	< 3.3	14 J	< 1
1,1-Dichloroethene		< 2	< 1.3	< 1.3	< 1	< 22	< 25	< 3.3	< 20	< 1
Acetone		< 20	< 13	< 13	< 10	< 220	< 250	< 33	23 J	< 10
Benzene		< 2	< 1.3	< 1.3	< 1	< 22	< 25	< 3.3	< 20	< 1
Chloroethane		< 2 J	< 1.3 J	< 1.3 J	< 1 J	< 22	< 25	< 3.3	< 20	< 1
Chloroform (Trichloromethane)		< 2	< 1.3	< 1.3	< 1	< 22	< 25	< 3.3	< 20	< 1
cis-1,2-Dichloroethene		43	21	22	25	660	660	3.2 J	410	< 1
trans-1,2-Dichloroethene		< 2	< 1.3	< 1.3	0.36 J	< 22	7.9 J	< 3.3	< 20	< 1
Trichloroethene		< 2	0.37 J	< 1.3	< 1	< 22	370	93	520	< 1
Trichlorofluoromethane (CFC-11)		< 2	< 1.3	< 1.3	< 1	< 22	< 25	< 3.3	< 20	< 1
Vinyl chloride		15	23	24	32	29	16 J	< 3.3	< 20	< 1

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TABLE 2
FOURTH QUARTER 2015 & FIRST QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Location	MW-434D	MW-435D	MW-444D	MW-445S	MW-446SR	MW-453D	MW-515	MW-605	MW-607
Sam	nple Date	02/03/2016	02/04/2016	02/03/2016	01/28/2016	01/27/2016	02/03/2016	01/27/2016	01/29/2016	02/01/2016
		SR	SR	SR	TOR	TOR	SR	S2	S2	WT/S1
Sam	ple Type	N	N	N	N	N	N	N	N	N
Volatile Organic Compounds (ug/L)										
1,1,1-Trichloroethane		1 R	1 R	2 R	< 1	< 1	< 1	< 1	< 1	0.46 J
1,1-Dichloroethane		1 R	1 R	2 R	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene		1 R	1 R	2 R	< 1	< 1	< 1	< 1	< 1	< 1 J
Acetone		10 R	10 R	20 R	< 10	< 10	< 10	< 10	< 10	< 10 J
Benzene		1 R	1 R	2 R	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane		1 R	1 R	2 R	< 1	< 1	< 1 J	< 1	< 1	< 1
Chloroform (Trichloromethane)		1 R	1 R	2 R	< 1	< 1	< 1	< 1	< 1	2.2
cis-1,2-Dichloroethene		1 R	15 J-	2 R	0.41 J	< 1	30	< 1	< 1	1.6
trans-1,2-Dichloroethene		1 R	1 R	2 R	< 1	< 1	0.71 J	< 1	< 1	< 1
Trichloroethene		1 R	11 J-	2 R	< 1	< 1	21	0.3 J	0.57 J	13
Trichlorofluoromethane (CFC-11)		1 R	1 R	2 R	< 1	< 1	< 1	< 1	< 1	0.58 J
Vinyl chloride		1 R	1 R	2 R	< 1	< 1	< 1	< 1	< 1	< 1

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
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TABLE 2
FOURTH QUARTER 2015 & FIRST QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Location	MW-715	MW-717	MW-725	MW-729	MW-730	MW-731	MW-732	MW-734	MW-740
	Sample Date	02/04/2016	02/01/2016	02/01/2016	02/01/2016	01/27/2016	02/01/2016	02/02/2016	02/01/2016	01/26/2016
		S1	S2	S2	WT/S1	S1	S2	S1	WT/S1	S2
	Sample Type	N	N	N	N	N	N	N	N	N
Volatile Organic Compounds (ug/L	.)									
1,1,1-Trichloroethane		1 R	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane		1 R	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene		1 R	< 1 J	< 1 J	< 1 J	< 1	< 1 J	< 1	< 1 J	< 1
Acetone		10 R	< 10 J	< 10 J	< 10 J	< 10	< 10 J	< 10	< 10 J	< 10
Benzene		1 R	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane		1 R	< 1	< 1	< 1	< 1	< 1	< 1 J	< 1	< 1
Chloroform (Trichloromethane)		1 R	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene		1 R	< 1	< 1	< 1	3.3	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene		1 R	< 1	< 1	< 1	0.53 J	< 1	< 1	< 1	< 1
Trichloroethene		1 R	< 1	< 1	< 1	2.6	< 1	< 1	0.22 J	< 1
Trichlorofluoromethane (CFC-11)		1 R	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride		1 R	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
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- J-: Estimated result, biased low
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 2
FOURTH QUARTER 2015 & FIRST QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Location	MW-741	MW-742	MW-743	MW-746	MW-759	MW-775	MW-776	MW-784	MW-784
	Sample Date	01/28/2016	02/03/2016	02/01/2016	02/01/2016	01/26/2016	01/26/2016	01/26/2016	02/02/2016	02/02/2016
		S2	S2	S2	S2	S2	WT	WT/S1	WT	WT
	Sample Type	N	N	N	N	N	N	N	N	FD
Volatile Organic Compounds (ug	ı/L)									
1,1,1-Trichloroethane	-	< 1	< 1	< 1	< 1	< 1.4	< 1	< 1	< 1	< 1
1,1-Dichloroethane		< 1	< 1	< 1	< 1	< 1.4	< 1	< 1	< 1	< 1
1,1-Dichloroethene		< 1	< 1	< 1 J	< 1 J	< 1.4	< 1	< 1	< 1	< 1
Acetone		< 10	< 10	< 10 J	< 10 J	< 14	< 10	< 10	< 10	< 10
Benzene		< 1	< 1	< 1 J	< 1	< 1.4	< 1	< 1	< 1	< 1
Chloroethane		< 1	< 1 J	< 1	< 1	< 1.4	< 1	< 1	< 1 J	< 1 J
Chloroform (Trichloromethane)		< 1	< 1	< 1	< 1	< 1.4	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene		< 1	10	< 1	< 1	39	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene		< 1	0.37 J	< 1	< 1	2.5	< 1	< 1	< 1	< 1
Trichloroethene		< 1	4.4	< 1 J	< 1	6.7	< 1	< 1	< 1	< 1
Trichlorofluoromethane (CFC-11)		< 1	< 1	< 1	< 1	< 1.4	< 1	< 1	< 1	< 1
Vinyl chloride		< 1	4.9	< 1	< 1	21	< 1	< 1	< 1	< 1

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- J-: Estimated result, biased low
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 2
FOURTH QUARTER 2015 & FIRST QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Location	MW-787	MW-787	MW-793	MW-796	MW-800	MW-806	MW-807	MW-807	MW-809
	Sample Date	02/04/2016	02/04/2016	02/04/2016	02/02/2016	01/26/2016	02/04/2016	02/04/2016	02/04/2016	02/04/2016
		WT	WT	WT/S1	WT/S1	S2	WT	S2	S2	S1/S2
	Sample Type	N	FD	N	N	N	N	N	FD	N
Volatile Organic Compounds (ug	/L)									
1,1,1-Trichloroethane	-	1 R	1 R	1 R	< 1	< 1	< 1	< 1	1 R	< 1
1,1-Dichloroethane		0.91 J-	0.96 J-	1 R	< 1	< 1	290	< 1	1 R	< 1
1,1-Dichloroethene		1 R	1 R	1 R	< 1	< 1	78	< 1	1 R	< 1
Acetone		10 R	10 R	10 R	< 10	< 10	< 10 J	< 10 J	10 R	< 10 J
Benzene		1 R	1 R	1 R	< 1	< 1	0.56 J	< 1	1 R	< 1
Chloroethane		1 R	1 R	1 R	< 1 J	< 1	56	< 1	1 R	< 1
Chloroform (Trichloromethane)		1 R	1 R	1 R	0.33 J	< 1	< 1	< 1	1 R	< 1
cis-1,2-Dichloroethene		88 J-	96 J-	1 R	< 1	< 1	16000	1.1	0.73 J-	17
trans-1,2-Dichloroethene		96 J-	99 J-	1 R	< 1	< 1	300	< 1	1 R	1
Trichloroethene		100 J-	100 J-	1 R	< 1	< 1	< 1	< 1	1 R	34
Trichlorofluoromethane (CFC-11)		1 R	1 R	1 R	< 1	< 1	< 1	< 1	1 R	< 1
Vinyl chloride		1 R	1 R	1 R	< 1	< 1	36	< 1	1 R	< 1

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- J-: Estimated result, biased low
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 2
FOURTH QUARTER 2015 & FIRST QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Location	MW-810	MW-814	MW-814	MW-815	VPW-103
	Sample Date	02/02/2016	02/03/2016	02/03/2016	02/05/2016	01/28/2016
	·	WT	WT/S1	WT/S1	WT/S1	WT/S1
	Sample Type	N	N	FD	N	N
Volatile Organic Compounds (ug	/L)					
1,1,1-Trichloroethane		< 1	< 1	< 1	1 R	< 1
1,1-Dichloroethane		< 1	< 1	< 1	1 R	< 1
1,1-Dichloroethene		< 1	< 1	< 1	1 R	< 1
Acetone		< 10	< 10	< 10	10 R	< 10
Benzene		< 1	< 1	< 1	1 R	< 1
Chloroethane		< 1 J	< 1 J	< 1 J	1 R	< 1
Chloroform (Trichloromethane)		< 1	< 1	< 1	1 R	< 1
cis-1,2-Dichloroethene		< 1	< 1	< 1	1 R	< 1
trans-1,2-Dichloroethene		< 1	< 1	< 1	1 R	< 1
Trichloroethene		< 1	< 1	< 1	1 R	< 1
Trichlorofluoromethane (CFC-11)		< 1	< 1	< 1	1 R	< 1
Vinyl chloride		< 1	< 1	< 1	1 R	< 1

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- J-: Estimated result, biased low
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 3
FOURTH QUARTER 2015 AND FIRST QUARTER 2016 ANALYTICAL RESULTS
SURFACE WATER AND SUGAR ROCK SPRING SAMPLES
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

		North Creek					Spi	ring		
SW-1	SW-1	SW-4	SW-4	SW-4	B005	B006	C001	D001	E001	E002
12/16/2015	01/14/2016	12/16/2015	01/14/2016	3/16/2016	01/14/2016	01/14/2016	01/14/2016	01/14/2016	01/14/2016	01/14/2016
N	N	N	N	N	N	N	N	N	N	N
< 1	1.6	2.8	4.4	< 1	< 1	< 1	< 1.4	< 2.5	< 1.4	< 1
< 1	< 1	0.53 J	< 2	< 1	< 1	< 1	< 1.4	< 2.5	< 1.4	< 1
< 1	< 1	< 1.3	< 2	< 1	< 1	< 1	< 1.4	< 2.5	< 1.4	< 1
0.72 J	9.5	18	27	< 1	0.56 J	0.69 J	13	5.9	9.7	0.31 J
< 1	< 1	< 1.3	< 2	< 1	< 1	< 1	0.86 J	1.8 J	0.94 J	< 1
1.1	19	35	57	1.1	2.2	2.5	43	78	46	1.9
< 1	0.7 J	< 1.3	3.9	< 1	< 1	< 1	< 1.4	< 2.5	< 1.4	< 1
< 1	< 1	0.88 J	1.4 J	< 1	< 1	< 1	< 1.4	< 2.5	< 1.4	< 1
_	12/16/2015 N < 1 < 1 < 1 0.72 J < 1 1.1 < 1	12/16/2015 01/14/2016 N N <pre></pre>	12/16/2015 01/14/2016 12/16/2015 N N N <pre></pre>	12/16/2015 01/14/2016 12/16/2015 01/14/2016 N N N N N N N N N N N N N N N N N N N	12/16/2015 01/14/2016 12/16/2015 01/14/2016 3/16/2016 N N N N N N N N N N N N N N N N N N N	12/16/2015 01/14/2016 12/16/2015 01/14/2016 3/16/2016 01/14/2016 N N N N N N N N N N N N N N N N N N N	12/16/2015 01/14/2016 12/16/2015 01/14/2016 3/16/2016 01/14/2016 01/14/2016 N N N N N N N N N N N N N N N N N N N	12/16/2015 01/14/2016 12/16/2015 01/14/2016 3/16/2016 01/14/2016 01/14/2016 01/14/2016 N N N N N N N N N N N N N N N N N N N	12/16/2015 01/14/2016 12/16/2015 01/14/2016 3/16/2016 01/14/20	12/16/2015 01/14/2016 12/16/2015 01/14/2016 3/16/2016 N N N N N N N N N N N N N N N N N N N

Notes:

- 1. Summary includes compounds detected in one or more samples
- 2. Analysis methods SW8260.
- 3. See figures 2 and 3 for sample locations.
- 4. <: Result is below the indicated reporting limit.
- J: Estimated result.
- 5. Sample type codes: N Normal

TABLE 3
FOURTH QUARTER 2015 AND FIRST QUARTER 2016 ANALYTICAL RESULTS
SURFACE WATER AND SUGAR ROCK SPRING SAMPLES
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location G	roup		Spring	
Loc	ation	F001	G004	G006
Sample	Date	01/14/2016	01/14/2016	01/14/2016
Sample ³	Туре	N	N	N
Volatile Organic Compounds (ug/L)				
1,1,1-Trichloroethane		< 1	< 1	< 1 J
1,1-Dichloroethane		< 1	< 1	< 1 J
Chloroform (Trichloromethane)		5.7	< 1	< 1 J
cis-1,2-Dichloroethene		< 1	< 1	1.6 J
trans-1,2-Dichloroethene		< 1	< 1	< 1 J
Trichloroethene		< 1	< 1	3 J
Trichlorofluoromethane (CFC-11)		< 1	< 1	< 1 J
Vinyl chloride		< 1	< 1	< 1 J

Notes:

- 1. Summary includes compounds detected in one or more samples
- 2. Analysis methods SW8260.
- 3. See figures 2 and 3 for sample locations.
- 4. <: Result is below the indicated reporting limit.
- J: Estimated result.
- 5. Sample type codes: N Normal

TABLE 4
FOURTH QUARTER 2015 & FIRST QUARTER 2016
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	BRIN-100815 10/8/2015	OBIN-100815 10/8/2015	SSIN-100815 10/8/2015	PREAS-100815 10/8/2015	PRECAR-100815 10/8/2015	EFF-100815 10/8/2015
Compound	Sugar Rock Recovery Well	Overburden Recovery Well	Second Sand Recovery Well	Pre Air Stripper	Pre Carbon Vessels	Effluent
Compound	11000VOIY VVOII	Trocovory Won	TOOUTORY WOR	1 10 7 til Ottippol	* 000010	Lindont
VOLATILE ORGANICS - µg/L METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 500	< 200	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	555	< 200	< 100	< 1.00	< 1.00
Trichloroethene	3050	16900	12000	3740	< 1.00	< 1.00
cis-1,2-Dichloroethene	988	2230	2450	1060	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) METHOD: SM4500 H+B				6.86		8.17

< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2015 & FIRST QUARTER 2016
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	BRIN-110515 11/5/2015 Sugar Rock	OBIN-110515 11/5/2015 Overburden	SSIN-110515 11/5/2015 Second Sand	PREAS-110515 11/5/2015	PRECAR-110515 11/5/2015 Pre Carbon	EFF-110515 11/5/2015
Compound	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Vessels	Effluent
VOLATILE ORGANICS - μg/L METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 400	< 200	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	594	< 200	< 100	< 1.00	< 1.00
Trichloroethene	2830	18800	9640	4070	< 1.00	< 1.00
cis-1,2-Dichloroethene	826	2020	1810	952	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) METHOD: SM4500 H+B				7.17		8.35

< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2015 & FIRST QUARTER 2016
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	BRIN-120715	OBIN-120715	SSIN-120715	PREAS-120715	PRECAR-120715	EFF-120715
	12/7/2015	12/7/2015	12/7/2015	12/7/2015	12/7/2015	12/7/2015
	Sugar Rock	Overburden	Second Sand		Pre Carbon	
Compound	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Vessels	Effluent
VOLATILE ORGANICS - μg/L METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 400	< 200	< 50.0	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	< 400	< 200	< 50.0	< 1.00	< 1.00
Trichloroethene	2680	13500	10400	3460	2.56	< 1.00
cis-1,2-Dichloroethene	717	1200	1990	774	1.06	< 1.00
pH (Lab) - S.U. (standard units) METHOD: SM4500 H+B				7.15		8.15

< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2015 & FIRST QUARTER 2016
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Compound	BRIN-010616 1/6/2016 Sugar Rock Recovery Well	OBIN-010616 1/6/2016 Overburden Recovery Well	SSIN - Second Sand Recovery Well	PREAS-010616 1/6/2016 Pre Air Stripper	PRE CAR-010616 1/6/2016 Pre Carbon Vessels	EFF-010616 1/6/2016 Effluent
Compound	recovery vven	recovery wen	recovery vven	Tre / III Guippei	VCGGCIG	Lindon
VOLATILE ORGANICS - µg/L METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 200	-	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	268	-	< 100	< 1.00	< 1.00
Trichloroethene	2090	7910	-	2150	< 1.00	< 1.00
cis-1,2-Dichloroethene	667	738	-	646	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) METHOD: SM4500 H+B				7.22		8.50

< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2015 & FIRST QUARTER 2016
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

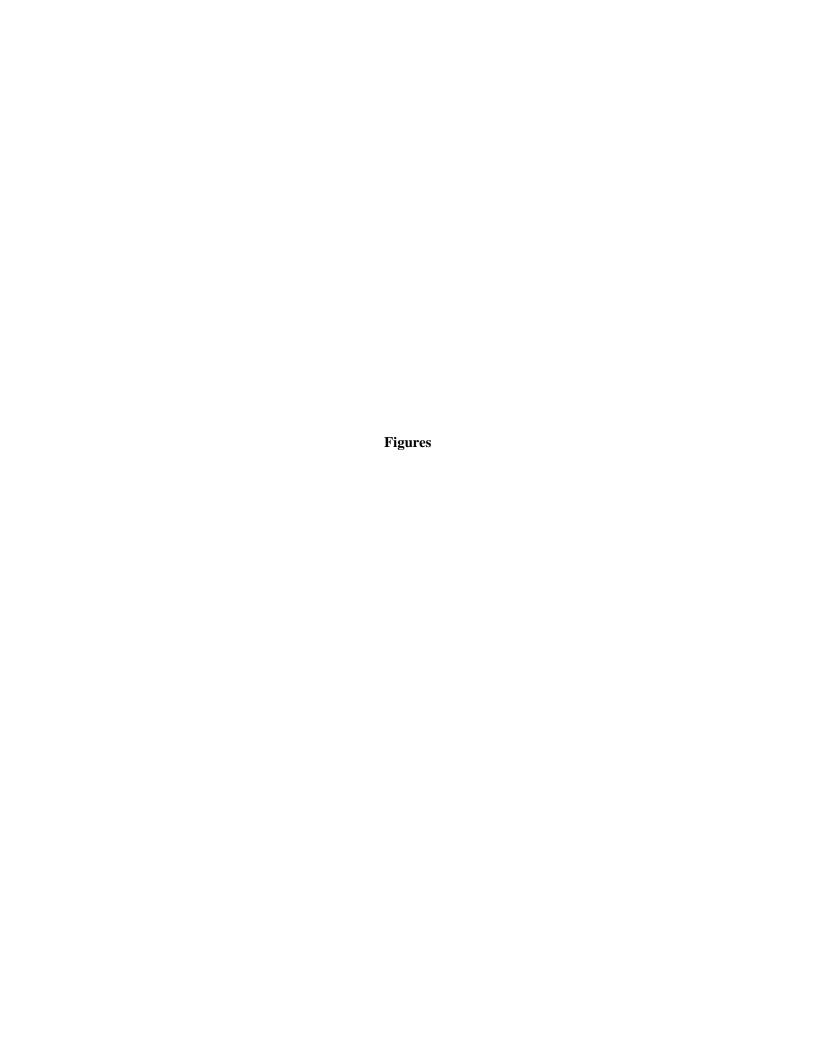
	BRIN-020816 2/8/2016	OBIN-020816 2/8/2016	SSIN -	PREAS-020816 2/8/2016	PRECAR-020816 2/8/2016	EFF-020816 2/8/2016
	Sugar Rock	Overburden	Second Sand		Pre Carbon	
Compound	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Vessels	Effluent
VOLATILE ORGANICS - µg/L METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 250	-	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	420	=	< 100	< 1.00	< 1.00
Trichloroethene	2420	12400	-	3000	< 1.00	< 1.00
cis-1,2-Dichloroethene	774	1110	-	776	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) METHOD: SM4500 H+B				7.20		8.50

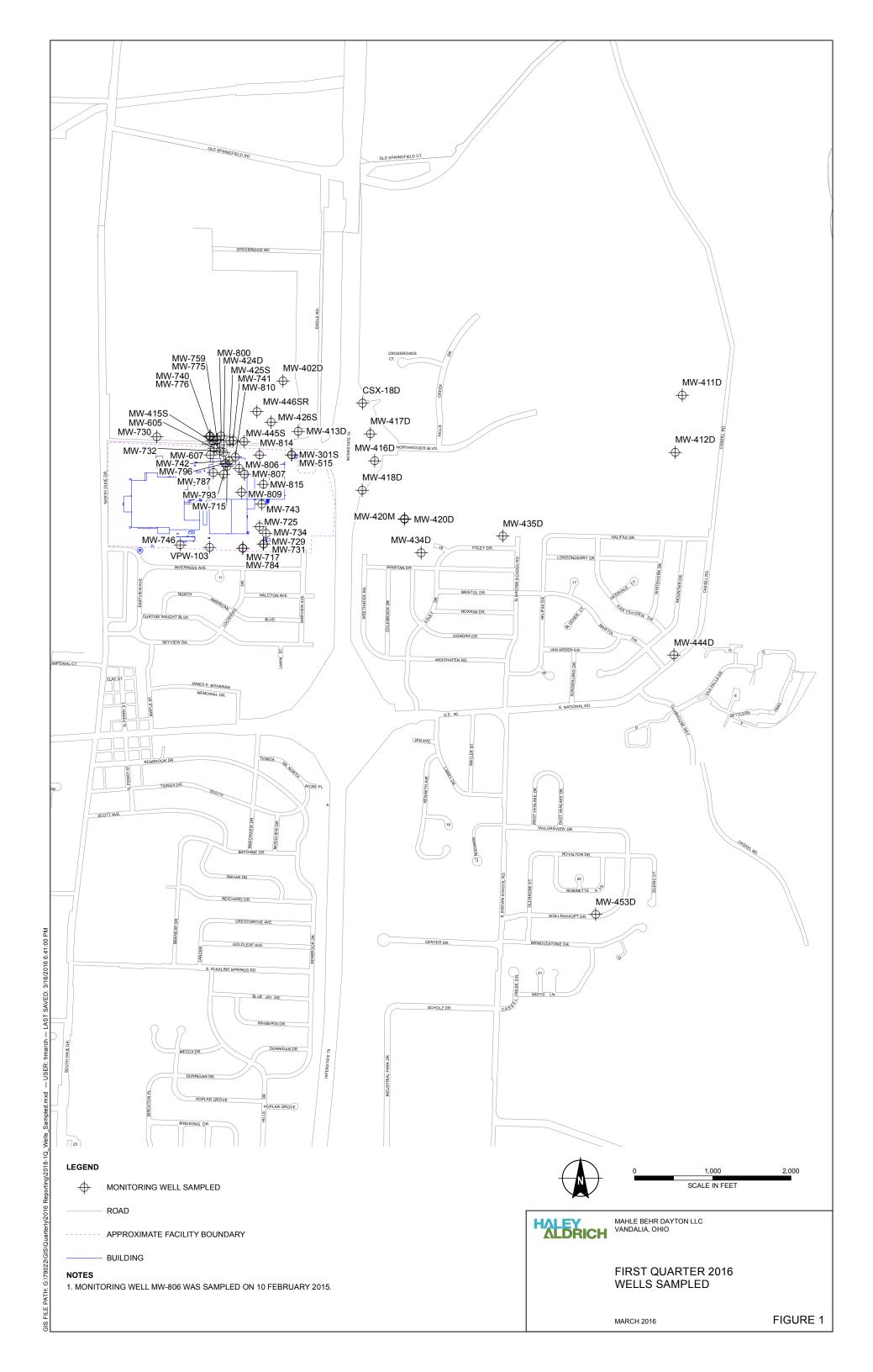
< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

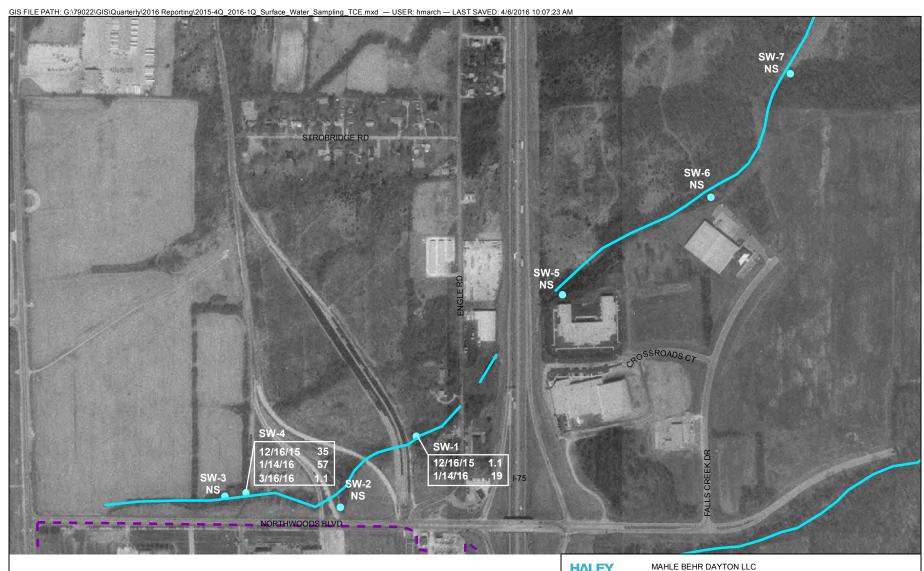
TABLE 4
FOURTH QUARTER 2015 & FIRST QUARTER 2016
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	BRIN-030416 3/4/2016	OBIN-030416 3/4/2016	SSIN -	PREAS-030416 3/4/2016	PRECAR-030416 3/4/2016	EFF-030416 3/4/2016
	Sugar Rock	Overburden	Second Sand	o, .,_o . o	Pre Carbon	0, 1,20.0
Compound	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Vessels	Effluent
VOLATILE ORGANICS - μg/L METHOD: EPA 624						
1,1-Dichloroethane	< 40.0	< 71.4	-	< 50.0	< 1.00	< 1.00
1,1,1-Trichloroethane	< 40.0	145	-	< 50.0	< 1.00	< 1.00
Trichloroethene	2120	4320	-	2860	1.46	1.02
cis-1,2-Dichloroethene	618	344	-	552	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) METHOD: SM4500 H+B				7.12		8.46

< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.







LEGEND

APPROXIMATE FACILITY BOUNDARY

APPROXIMATE LOCATION OF THE UNNAMED TRIBUTARY OF NORTH CREEK

SW-1 APPROXIMATE SAMPLE LOCATION

WITH TCE RESULT IN ug/I

NOT SAMPLED





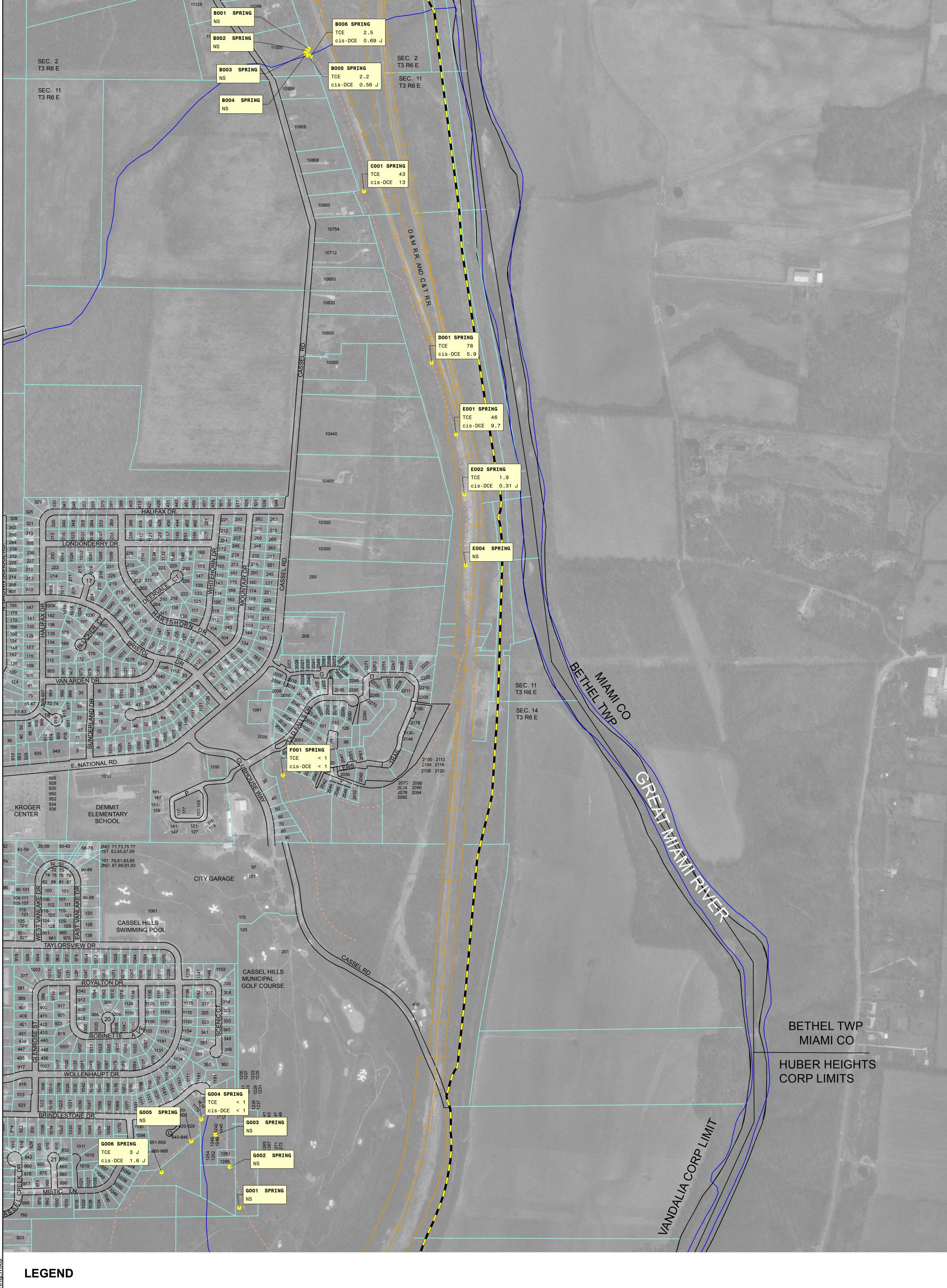
HALEY ALDRICH

MAHLE BEHR DAYTON LLC VANDALIA, OHIO

FOURTH QUARTER 2015 & FIRST QUARTER 2016 SURFACE WATER SAMPLING LOCATIONS AND TCE RESULTS

SCALE: AS SHOWN APRIL 2016

FIGURE 2



APPROXIMATE LOCATIONS OF KNOWN SPRINGS & POOLS

INFERRED BRASSFIELD-BELFAST OUTCROP CONTACT

RAILROAD ROADWAYS

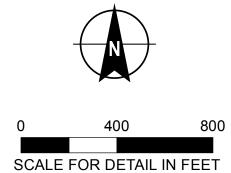
SURFACE WATER

NORTHERN SEGMENT OF THE GREAT MIAMI RIVER RECREATION TRAIL

PARCEL BOUNDARY

NOTES:

- 1. AERIAL PHOTOGRAPH AND SURFACE FEATURES PROVIDED BY ODOT.
 2. PARCEL BOUNDARIES AND ROADWAYS PROVIDED BY THE CITY OF VANDALIA.
- 3. LOCATIONS ARE APPROXIMATE.
- 4. NS NOT SAMPLED 5. RESULTS ARE IN UG/L.
- 6. SPRING LOCATIONS E001, E002, AND F001 WERE DRY AT THE TIME OF SAMPLING.



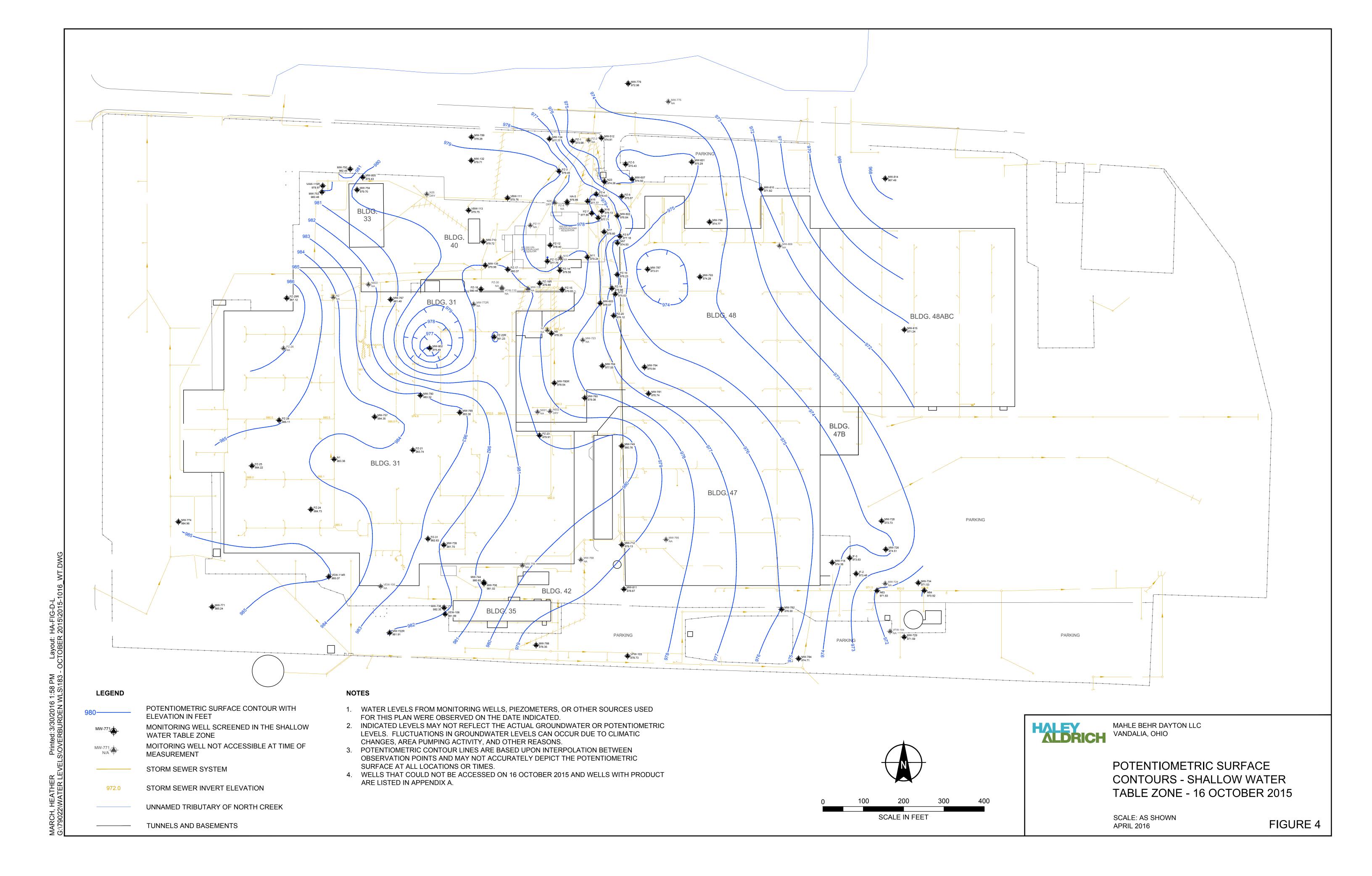


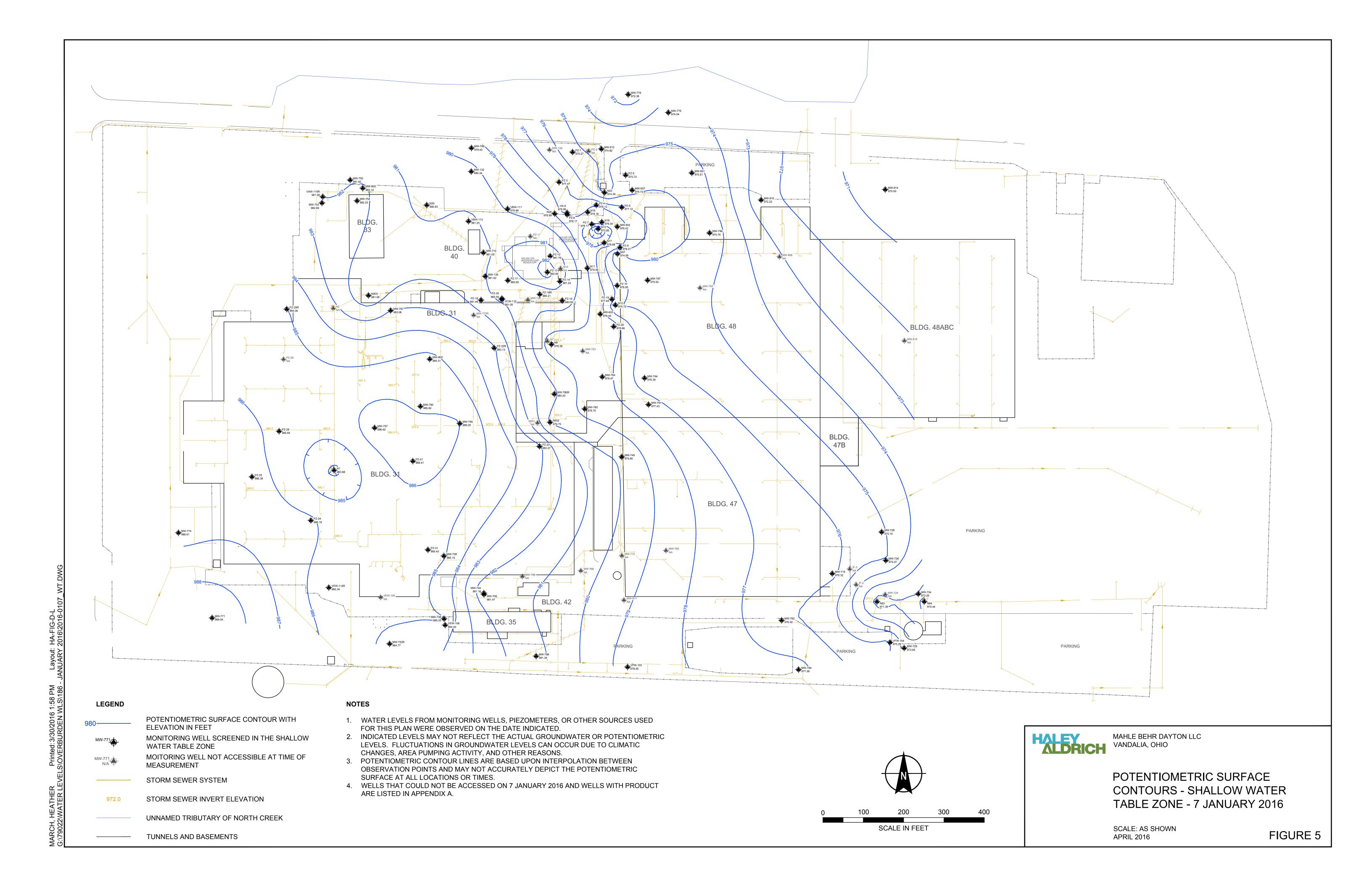
MAHLE BEHR DAYTON LLC VANDALIA, OHIO

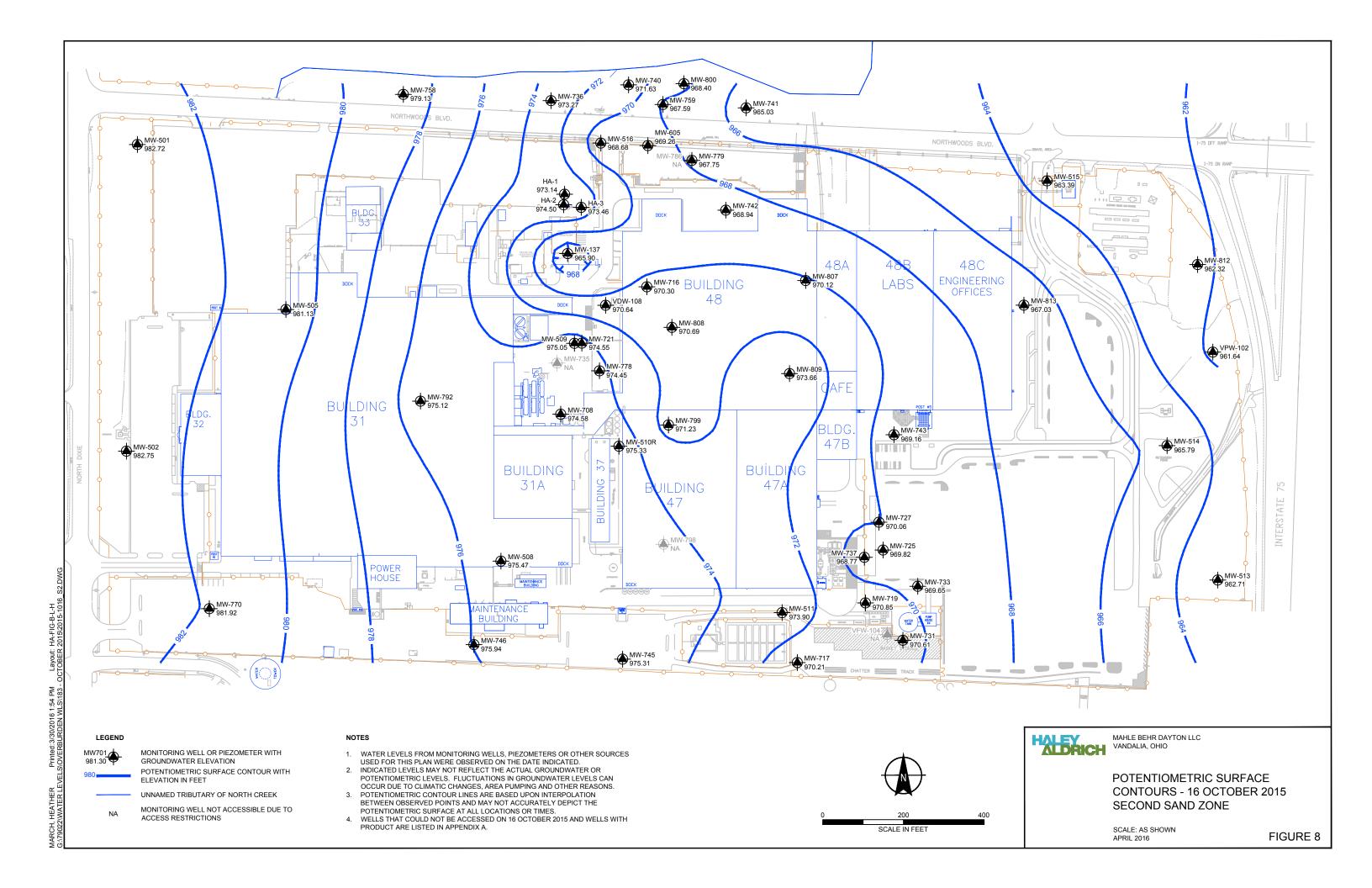
OUTCROP SURVEY JANUARY 2016 SPRING SAMPLE LOCATIONS TCE & DCE RESULTS

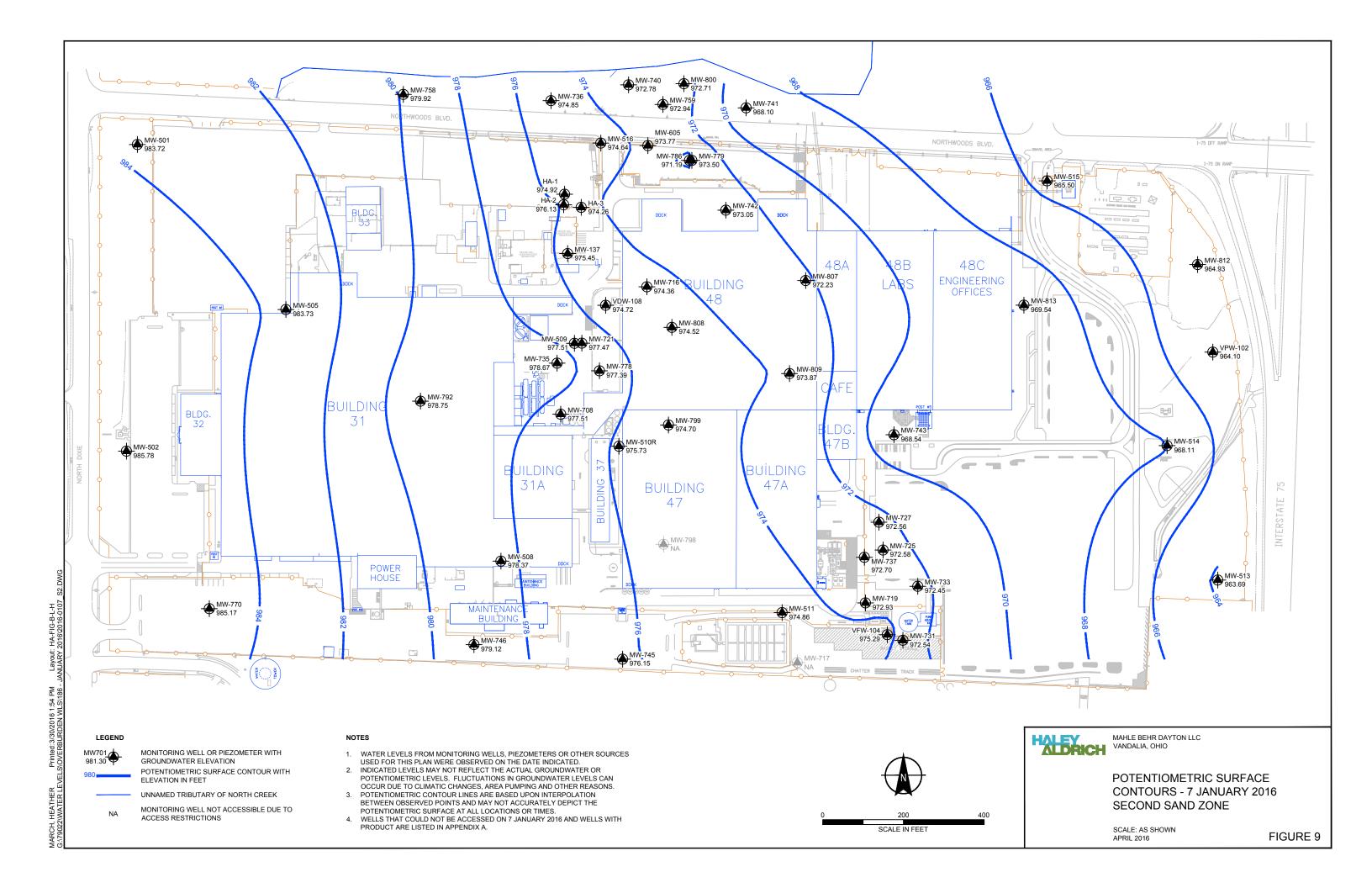
SCALE: AS SHOWN APRIL 2016

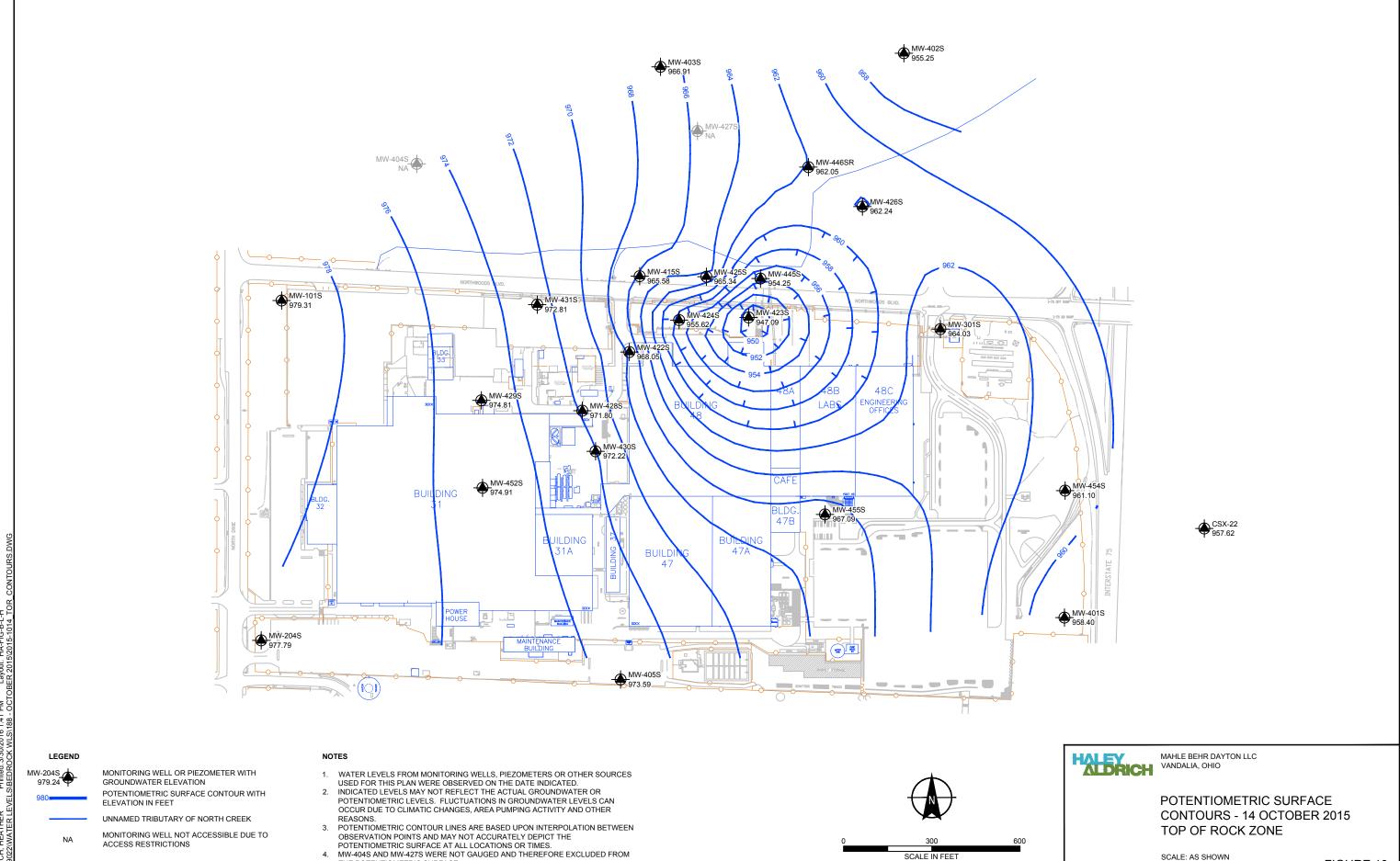
FIGURE 3







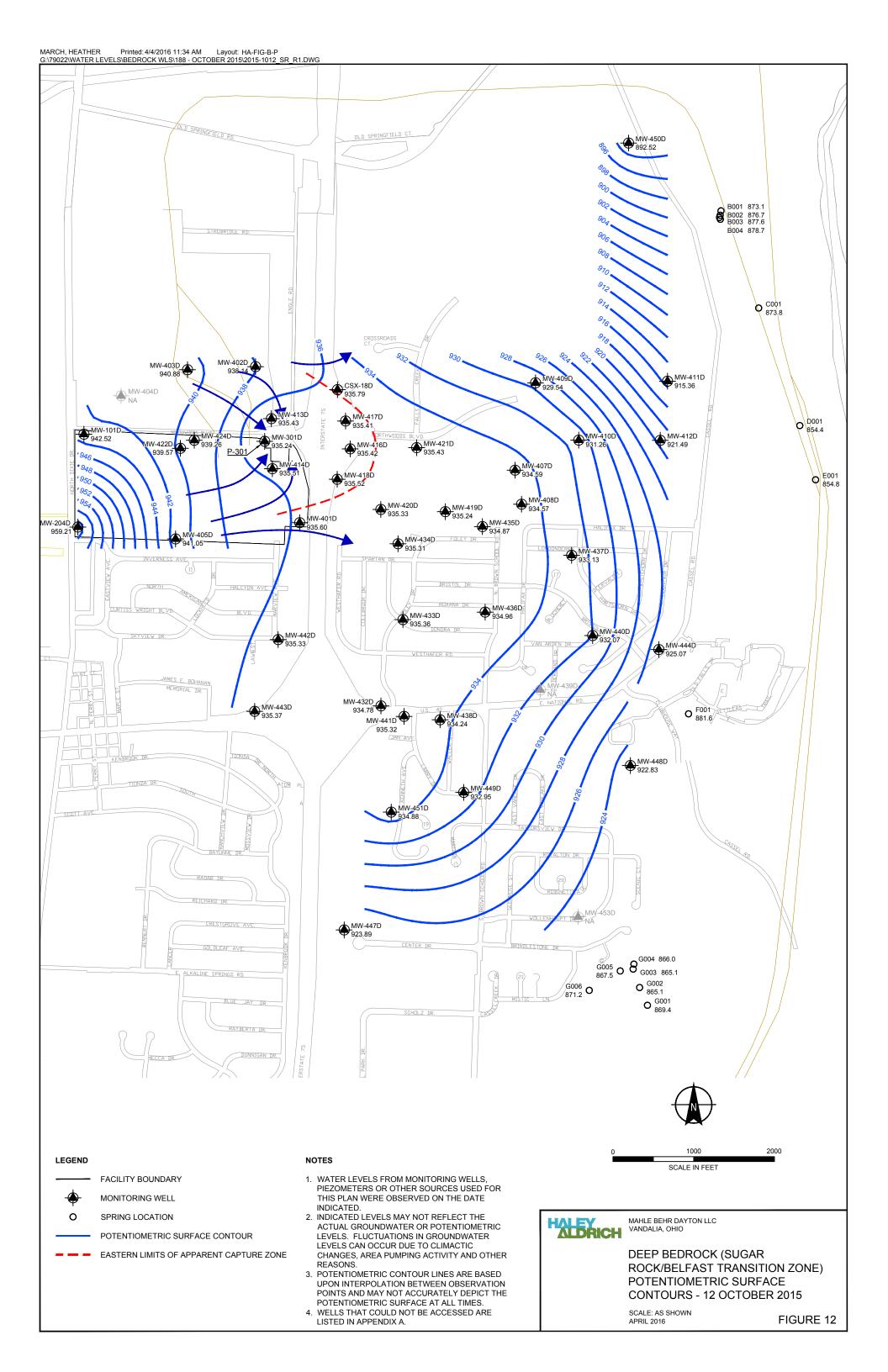


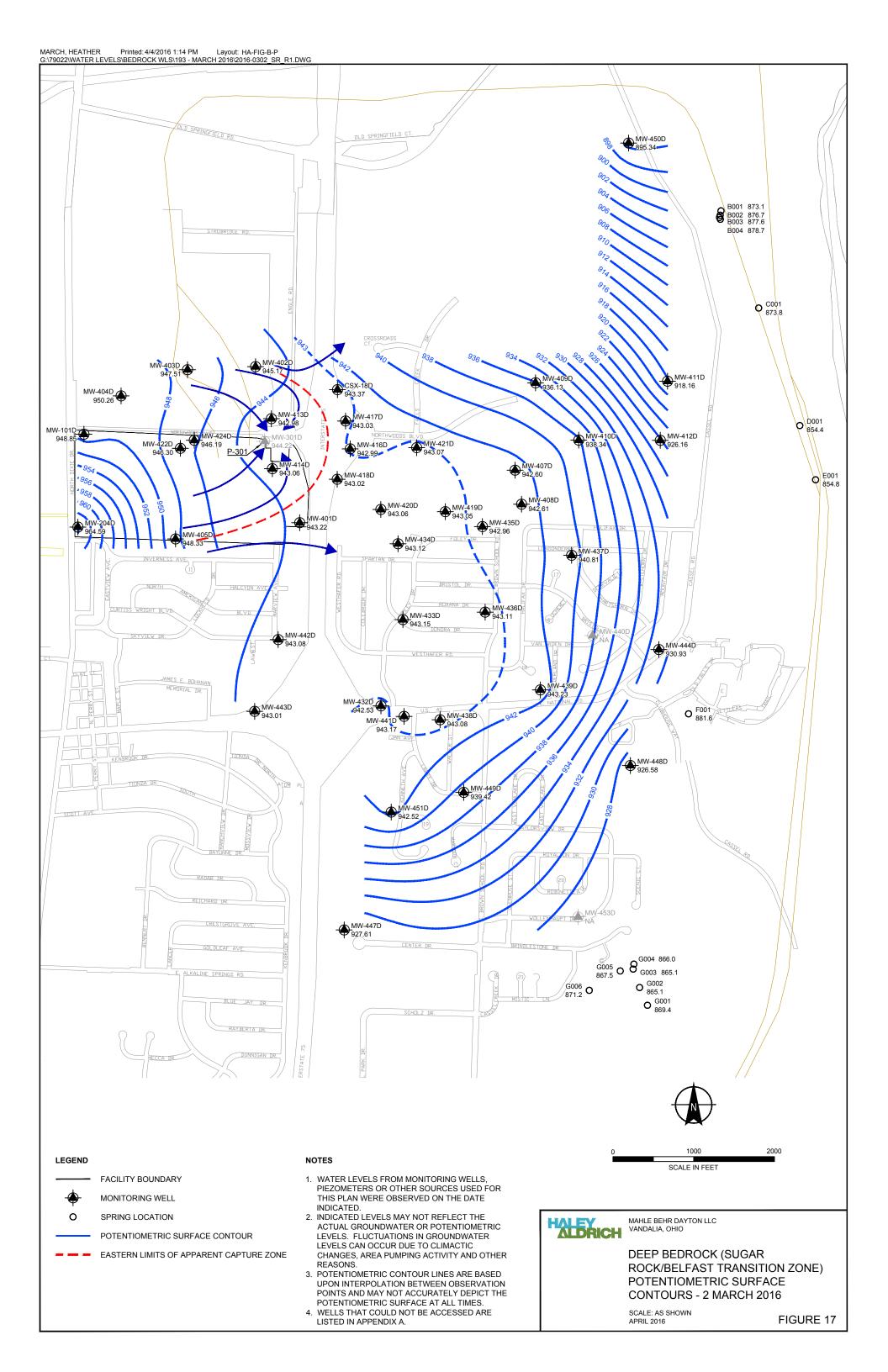


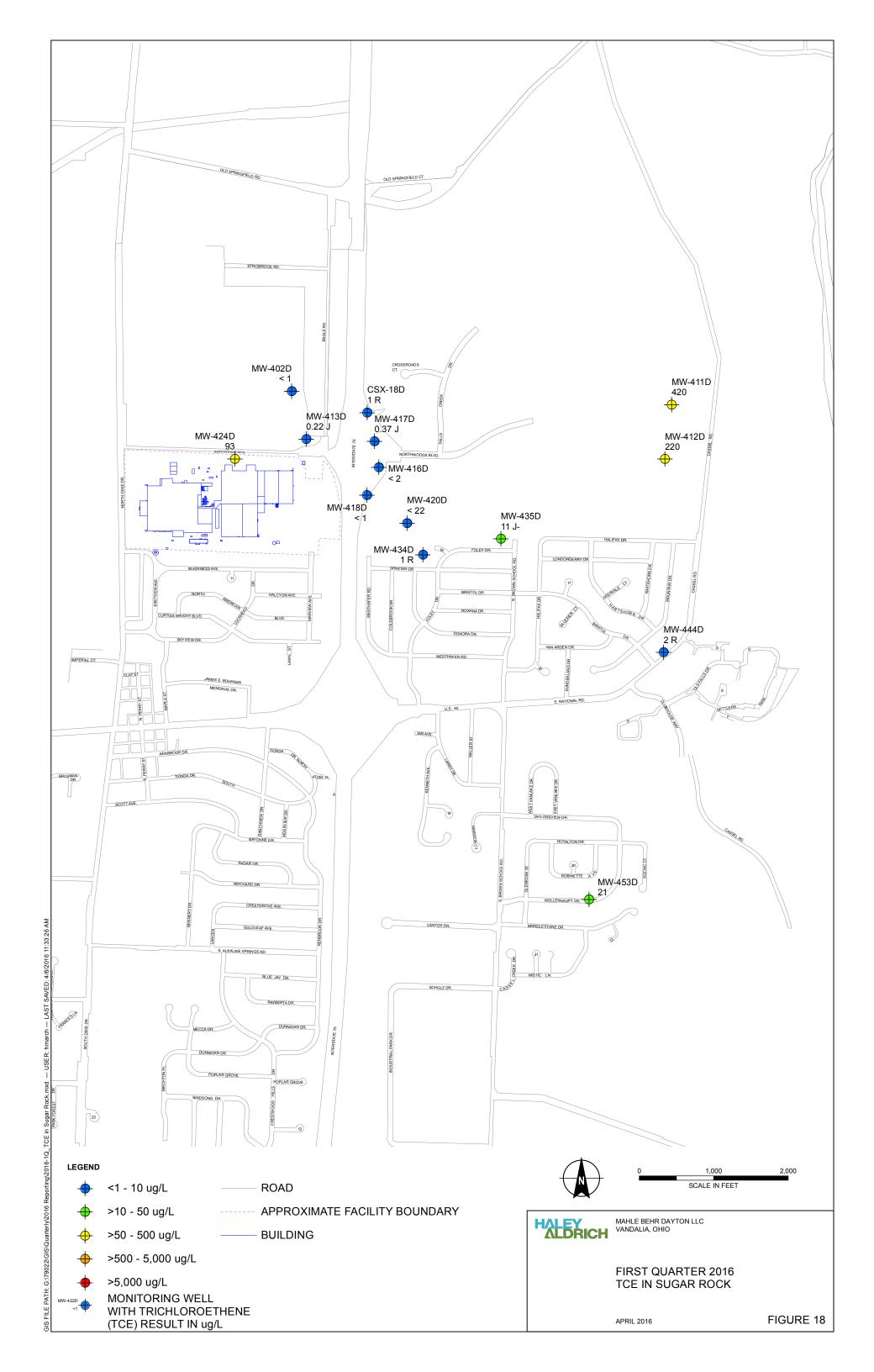
THE POTENTIOMETRIC SURFACE.

FIGURE 10

APRIL 2016







Attachment A Water Level Measurements

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	10/12/2015	11:40	29.17	964.96	935.79	
MW-101D	SR	10/12/2015	13:00	45.72	988.24	942.52	
MW-204D	SR	10/12/2015	13:05	35.05	994.26	959.21	
MW-301D	SR	10/12/2015	11:55	35.20	970.44	935.24	
MW-401D	SR	10/12/2015	12:05	38.97	974.57	935.60	
MW-402D	SR	10/12/2015	16:00	28.22	966.36	938.14	
MW-403D	SR	10/12/2015	12:10	36.48	977.36	940.88	
MW-404D	SR	10/12/2015	0:00	20112	988.83	0.10.00	could not locate
MW-405D	SR	10/12/2015	12:15	41.40	982.45	941.05	
MW-407D	SR	10/12/2015	15:40	21.65	956.24	934.59	
MW-408D	SR	10/12/2015	15:45	22.50	957.07	934.57	
MW-409D	SR	10/12/2015	15:55	12.95	942.49	929.54	
MW-410D	SR	10/12/2015	13:50	16.37	947.63	931.26	
MW-411D	SR	10/12/2015	14:55	28.07	943.43	915.36	
MW-412D	SR	10/12/2015	14:50	28.15	949.64	921.49	
MW-413D	SR	10/12/2015	12:00	34.70	970.13	935.43	
MW-414D	SR	10/12/2015	11:50	36.40	971.91	935.51	
MW-416D	SR	10/12/2015	11:35	30.42	965.84	935.42	
MW-417D	SR	10/12/2015	11:45	29.55	964.96	935.41	
MW-418D	SR	10/12/2015	11:30	29.54	965.06	935.52	
MW-419D	SR	10/12/2015	15:25	32.16	967.40	935.24	
MW-419M	MB	10/12/2015	15:20	32.10	967.50	935.40	
MW-420D	SR	10/12/2015	15:15	29.93	965.26	935.33	
MW-420M	MB	10/12/2015	15:10	29.20	964.85	935.65	
MW-421D	SR	10/12/2015	15:30	23.07	958.50	935.43	
MW-422D	SR	10/12/2015	12:25	41.41	980.98	939.57	
MW-424D	SR	10/12/2015	12:20	40.48	979.74	939.26	
MW-432D	SR	10/12/2015	13:25	39.72	974.50	934.78	
MW-432M	MB	10/12/2015	13:30	22.65	974.90	952.25	
MW-433D	SR	10/12/2015	14:15	35.07	970.43	935.36	
MW-434D	SR	10/12/2015	14:25	30.02	965.33	935.31	
MW-435D	SR	10/12/2015	14:20	21.04	955.91	934.87	
MW-436D	SR	10/12/2015	14:10	27.41	962.37	934.96	
MW-437D	SR	10/12/2015	14:35	15.25	948.38	933.13	
MW-438D	SR	10/12/2015	13:42	38.35	972.59	934.24	
MW-439D	SR	10/12/2015	0:00		955.58		blocked by car
MW-440D	SR	10/12/2015	14:30	4.63	936.70	932.07	,
MW-441D	SR	10/12/2015	13:35	39.06	974.38	935.32	
MW-442D	SR	10/12/2015	13:10	40.35	975.68	935.33	
MW-443D	SR	10/12/2015	13:15	44.35	979.72	935.37	
MW-444D	SR	10/12/2015	15:00	9.11	934.18	925.07	
MW-447D	SR	10/12/2015	13:52	41.95	965.84	923.89	
MW-448D	SR	10/12/2015	15:05	12.55	935.38	922.83	
MW-449D	SR	10/12/2015	13:48	37.49	970.44	932.95	
MW-450D	SR	10/12/2015	14:40	17.99	910.51	892.52	
MW-451D	SR	10/12/2015	13:38	32.44	967.32	934.88	
MW-453D	SR	10/12/2015	13:59		923.25		flowing artesian

Monitoring Well ID	Well Type	Date	Time	Water Level	Top of Riser Elevation	Groundwater Elevation	Remarks
Well ID	туре			(ft)	(ft)	(ft)	
CSX-22	TOR	10/14/2015	12:45	9.73	967.35	957.62	
MW-101S	TOR	10/14/2015	13:20	8.73	988.04	979.31	
MW-204S	TOR	10/14/2015	13:15	16.15	993.94	977.79	
MW-301S	TOR	10/14/2015	12:40	7.00	971.03	964.03	
MW-401S	TOR	10/14/2015	12:20	16.33	974.73	958.40	
MW-402S	TOR	10/14/2015	11:00	11.37	966.62	955.25	
MW-403S	TOR	10/14/2015	11:30	9.70	976.61	966.91	
MW-404S	TOR	10/14/2015	0:00		989.50		could not locate
MW-405S	TOR	10/14/2015	11:50	8.88	982.47	973.59	
MW-407S	TOR	10/14/2015	12:55	9.43	952.99	943.56	
MW-412S	TOR	10/14/2015	15:30	15.30	949.79	934.49	
MW-415S	TOR	10/14/2015	11:40	11.20	976.78	965.58	
MW-422S	TOR	10/14/2015	12:00	13.22	981.27	968.05	
MW-423S	TOR	10/14/2015	12:05	31.87	978.96	947.09	
MW-424S	TOR	10/14/2015	12:10	24.44	980.06	955.62	
MW-425S	TOR	10/14/2015	11:15	10.75	976.09	965.34	
MW-426S	TOR	10/14/2015	11:05	5.00	967.24	962.24	
MW-427S	TOR	10/14/2015	0:00		974.54		covered by truck
MW-428S	TOR	10/14/2015	13:35	13.63	985.43	971.80	
MW-429S	TOR	10/14/2015	13:30	10.27	985.08	974.81	
MW-430S	TOR	10/14/2015	11:55	12.54	984.76	972.22	
MW-431S	TOR	10/14/2015	13:25	9.65	982.46	972.81	
MW-445S	TOR	10/14/2015	11:10	21.82	976.07	954.25	
MW-446SR	TOR	10/14/2015	11:45	9.99	972.04	962.05	
MW-452S	TOR	10/14/2015	13:38	14.22	989.13	974.91	
MW-454S	TOR	10/14/2015	12:15	8.28	969.38	961.10	
MW-455S	TOR	10/14/2015	12:30	9.56	976.65	967.09	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
HA-1	S2	10/16/2015	14:55	9.10	982.24	973.14	
HA-2	S2	10/16/2015	15:00	8.20	982.70	974.50	
HA-3	S2	10/16/2015	15:02	9.15	982.61	973.46	
HA-4	S1	10/16/2015	15:05	4.30	981.14	976.84	
HA-5 IF-2	WT WT/S1	10/16/2015 10/16/2015	15:40 16:30	6.08 5.16	982.94 978.64	976.86 973.48	
IF-2	WT/S1	10/16/2015	16:35	4.98	978.61	973.46	
MW-130	S1	10/16/2015	13:05	2.81	986.02	983.21	
MW-131	S1	10/16/2015	13:07	4.10	985.72	981.62	
MW-132	WT/S1	10/16/2015	13:41	4.36	984.07	979.71	
MW-133	S1	10/16/2015	13:25	5.10	983.13	978.03	
MW-134	WT/S1	10/16/2015	13:35	2.01	979.78	977.77	
MW-135	WT/S1	10/16/2015	14:03	4.88	984.86	979.98	
MW-136	WT/S1	10/16/2015	0:00		985.67		COVERED
MW-137	S2	10/16/2015	13:35	16.34	982.24	965.90	
MW-138	S1	10/16/2015	13:37	3.94	982.24	978.30	
MW-501	S2	10/16/2015	12:50	6.01	988.73	982.72	
MW-502	S1/S2	10/16/2015	12:36	7.45	990.20	982.75	
MW-503	S1	10/16/2015	11:30	10.50	994.49	983.99	
MW-504R	S1	10/16/2015	14:28	4.30	984.42	980.12	
MW-505	S1/S2	10/16/2015	12:46	8.15	989.28	981.13	
MW-506	S1	10/16/2015	17:05	5.19	988.96	983.77	
MW-507	S1	10/16/2015	14:37	7.61	988.96	981.35	
MW-508	S2	10/16/2015	12:00	13.60	989.07	975.47	
MW-509	S2	10/16/2015	13:17	10.35	985.40	975.05	
MW-510R MW-511	\$2 \$2	10/16/2015	15:42 15:28	6.18 6.16	981.51	975.33 973.90	
MW-512	WT	10/16/2015 10/16/2015	17:20	4.34	980.06 979.15	974.81	
MW-513	S2	10/16/2015	11:08	12.13	974.84	962.71	
MW-514	S2	10/16/2015	11:20	2.52	968.31	965.79	
MW-515	S2	10/16/2015	11:00	7.05	970.44	963.39	
MW-516	S2	10/16/2015	17:15	10.15	978.83	968.68	
MW-601	WT	10/16/2015	17:30	4.18	979.47	975.29	
MW-602	WT	10/16/2015	13:43	5.10	981.94	976.84	
MW-603	WT	10/16/2015	13:27	6.35	984.42	978.07	
MW-604	S1	10/16/2015	13:39	3.78	981.77	977.99	
MW-605	S2	10/16/2015	17:32	9.36	978.62	969.26	
MW-606	S1	10/16/2015	13:34	5.22	982.87	977.65	
MW-607	WT/S1	10/16/2015	16:20	4.95	979.87	974.92	
MW-700	S1	10/16/2015	14:32	8.24	988.77	980.53	
MW-701	S1	10/16/2015	16:10	8.10	988.92	980.82	
MW-702	S1	10/16/2015	0:00	1.40	989.24	987.84	
MW-703R MW-705	S1 S1	10/16/2015	16:12	5.80	988.84 989.17	983.04 976.56	
MW-706	WT	10/16/2015 10/16/2015	12:06 11:03	12.61 6.65	989.17	976.56	
MW-706	VV I S1	10/16/2015	14:38	8.07	989.06	981.02	
MW-708	\$1 \$2	10/16/2015	0:00	10.66	985.24	974.58	
MW-709	S2 	10/16/2015	14:40	4.61	989.10	984.49	
MW-710	WT/S1	10/16/2015	14:05	5.43	985.15	979.72	
MW-711	S1	10/16/2015	15:49	8.39	989.16	980.77	
MW-712	WT/S1	10/16/2015	15:35	3.18	982.31	979.13	
MW-715	S1	10/16/2015	13:00	7.44	982.30	974.86	
MW-716	S2	10/16/2015	12:53	12.01	982.31	970.30	
MW-717	S2	10/16/2015	16:40	9.61	979.82	970.21	
MW-718	WT/S1	10/16/2015	16:50	5.89	980.27	974.38	
MW-719	S2	10/16/2015	17:20	8.16	979.01	970.85	
MW-720	S1	10/16/2015	11:32	7.28	979.29	972.01	
MW-721	S2	10/16/2015	13:16	10.26	984.81	974.55	
MW-722R	WT	10/16/2015	11:41	5.80	987.71	981.91	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
MW-723	WT	10/16/2015	0:00		984.75		ABANDONED
MW-724	WT/S1	10/16/2015	11:35	0.04	979.15	000.00	
MW-725	S2	10/16/2015	11:46 11:50	8.64	978.46	969.82	
MW-726 MW-727	WT/S1 S2	10/16/2015 10/16/2015	11:50	4.19 7.78	978.70 977.84	974.51 970.06	
MW-728	WT/S1	10/16/2015	11:42	4.34	978.07	973.73	
MW-729	WT/S1	10/16/2015	17:35	5.61	977.20	973.73	
MW-730	S1	10/16/2015	14:00	3.16	982.08	978.92	
MW-731	\$2	10/16/2015	17:36	6.58	977.19	970.61	
MW-732	S1	10/16/2015	17:40	4.39	978.89	974.50	
MW-733	S2	10/16/2015	11:28	9.33	978.98	969.65	
MW-734	WT/S1	10/16/2015	11:25	7.61	979.14	971.53	
MW-735	S2	10/16/2015	0:00		985.47		NOT MEASURED
MW-736	S2	10/16/2015	14:30	6.18	979.45	973.27	
MW-737	S2	10/16/2015	17:43	10.19	978.96	968.77	
MW-738	WT	10/16/2015	11:50	5.40	987.75	982.35	
MW-739	WT	10/16/2015	12:03	7.35	989.05	981.70	
MW-740	S2	10/16/2015	15:35	2.19	973.82	971.63	
MW-741	S2	10/16/2015	15:56	11.16	976.19	965.03	
MW-742	S2	10/16/2015	12:05	11.16	980.10	968.94	
MW-743	S2	10/16/2015	11:52	7.73	976.89	969.16	
MW-744	WT	10/16/2015	11:55	6.90	987.55	980.65	
MW-745	S2	10/16/2015	15:20	7.18	982.49	975.31	
MW-746	S2	10/16/2015	11:45	11.70	987.64	975.94	
MW-747R	S1	10/16/2015	11:39	9.95	988.14	978.19	
MW-748	S1	10/16/2015	15:40	4.21	981.98	977.77	
MW-749	WT WT	10/16/2015	15:41	1.18 3.01	981.94	980.76	
MW-750 MW-753	WT	10/16/2015 10/16/2015	13:10 15:15	4.89	985.50 985.37	982.49 980.48	
MW-754	WT	10/16/2015	15:19	6.38	986.08	979.70	
MW-757	WT	10/16/2015	16:17	4.60	988.95	984.35	
MW-758	S2	10/16/2015	14:10	3.21	982.34	979.13	
MW-759	S2	10/16/2015	15:50	9.28	976.87	967.59	
MW-760	WT	10/16/2015	13:13	6.41	984.49	978.08	
MW-764	WT/S1	10/16/2015	13:18	5.23	982.78	977.55	
MW-765	WT	10/16/2015	16:15	5.60	988.96	983.36	
MW-766	WT	10/16/2015	0:00		987.15		COVERED
MW-767	WT	10/16/2015	14:36	7.43	988.92	981.49	
MW-768	WT	10/16/2015	0:00		985.64		ABANDONED
MW-770	S1/S2	10/16/2015	11:34	10.70	992.62	981.92	
MW-771	WT	10/16/2015	11:35	7.30	992.54	985.24	
MW-772R	WT	10/16/2015	14:40	8.03		_	
MW-773	S1	10/16/2015	12:34	6.00	989.24	983.24	
MW-774	WT	10/16/2015	12:33	4.10	989.06	984.96	NOTATION
MW-775	WT	10/16/2015	14:53	4.00	976.91	070.00	NOT MEASURED
MW-776	WT/S1	10/16/2015	14:30	1.03	974.01	972.98	
MW-777	\$1 \$2	10/16/2015	13:15	6.11	985.65 982.78	979.54 974.45	
MW-778 MW-779	\$2 \$2	10/16/2015 10/16/2015	13:20 17:45	8.33 11.65	982.78	974.45 967.75	
MW-780R	WT/S1	10/16/2015	15:26	6.09	984.63	978.54	
MW-781	WT	10/16/2015	12:36	5.32	982.06	976.74	
MW-782	WT/S1	10/16/2015	15:25	4.19	980.19	976.00	
MW-784	WT	10/16/2015	17:47	5.38	980.09	974.71	
MW-786	S2	10/16/2015	0:00	5.55	979.35	J. 111 1	NOT MEASURED
MW-787	WT	10/16/2015	12:56	9.11	982.12	973.01	
MW-788	WT	10/16/2015	11:48	8.55	986.90	978.35	
MW-789	WT/S1	10/16/2015	13:40	4.15	982.43	978.28	
MW-790	WT	10/16/2015	14:50	5.60	988.92	983.32	
MW-792	S2	10/16/2015	14:55	13.90	989.02	975.12	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Туре			Level	Elevation	Elevation	
	7.			(ft)	(ft)	(ft)	
MW-793	WT/S1	10/16/2015	12:49	7.75	982.03	974.28	
MW-794	WT/S1	10/16/2015	12:43	6.43	982.07	975.64	
MW-795	WT	10/16/2015	0:00		982.12		HAS PRODUCT
MW-796	WT/S1	10/16/2015	12:07	5.48	980.25	974.77	
MW-797	S1	10/16/2015	0:00		985.68		ABANDONED
MW-798	S2	10/16/2015	0:00		982.19		HAS PRODUCT
MW-799	S2	10/16/2015	12:34	10.86	982.09	971.23	
MW-800	S2	10/16/2015	14:45	10.51	978.91	968.40	201/5050
MW-801	S1	10/16/2015	0:00	40.00	987.12	075.40	COVERED
MW-802	WT	10/16/2015	14:47	13.22	988.71	975.49	
MW-804R MW-805	S1 WT	10/16/2015	14:49 15:45	6.14 6.49	988.77 985.92	982.63	
MW-806	WT	10/16/2015 10/16/2015	0:00	6.49	982.15	979.43	COVERED
MW-807	S2	10/16/2015	12:25	11.96	982.08	970.12	COVERED
MW-808	S2	10/16/2015	12:46	11.51	982.20	970.12	
MW-809	S1/S2	10/16/2015	12:30	8.50	982.16	973.66	
MW-810	WT	10/16/2015	12:10	8.58	980.40	972.82	
MW-811	WT	10/16/2015	15:30	4.21	982.88	978.67	
MW-812	S2	10/16/2015	11:10	7.63	969.95	962.32	
MW-813	\$2	10/16/2015	11:05	8.40	975.43	967.03	
MW-814	WT/S1	10/16/2015	12:13	8.68	976.17	967.49	
MW-815	WT/S1	10/16/2015	12:18	8.06	979.30	971.24	
N001	WT	10/16/2015	0:00		985.43		COVERED
N002	WT	10/16/2015	16:20	9999.00	985.20	9999.00	DRY
N003	WT	10/16/2015	0:00		985.28		COVERED
N1	WT	10/16/2015	0:00	6.05	989.43	983.38	
N10	WT	10/16/2015	0:00		982.92		COVERED
N11	WT	10/16/2015	16:37	2.39	981.63	979.24	
N12	WT	10/16/2015	16:40	9.19	984.82	975.63	
N13	WT	10/16/2015	0:00	4.50	982.21	977.71	
N15	WT	10/16/2015	0:00	4.70	982.47	977.77	
N16	WT	10/16/2015	0:00	2.91	982.04	979.13	
N17 N2	WT WT	10/16/2015 10/16/2015	0:00	3.63	982.23 989.37	978.60	COVERED
N23	WT	10/16/2015	0:00	6.31	980.57	974.26	DRY
N25	WT	10/16/2015	0:00	9999.00	985.33	9999.00	DRY
N26	WT	10/16/2015	0:00	9999.00	983.29	9999.00	DICT
N57	WT	10/16/2015	16:44	7.57	982.50	974.93	
N62 (E2)	WT	10/16/2015	0:00	5.10	332.00	0.7 7.00	
N63	WT	10/16/2015	0:00	7.36	979.19	971.83	
N64	WT	10/16/2015	0:00	7.42	978.34	970.92	
N7	WT	10/16/2015	0:00		985.19		COVERED
N9	WT	10/16/2015	16:30	7.03	985.38	978.35	
PZ-1	WT	10/16/2015	16:00	4.66	978.64	973.98	
PZ-10	WT	10/16/2015	13:30	7.00	983.23	976.23	
PZ-11	WT	10/16/2015	0:00		983.34		COVERED
PZ-12	WT	10/16/2015	14:11	4.55	982.95	978.40	
PZ-13	WT	10/16/2015	14:13	5.83	983.61	977.78	
PZ-14	WT	10/16/2015	14:15	4.65	984.21	979.56	
PZ-15	WT	10/16/2015	14:16	5.68	985.51	979.83	
PZ-16R	WT	10/16/2015	14:18	5.28	985.16	979.88	
PZ-17	WT	10/16/2015	14:23	3.42	983.49	980.07	
PZ-18	WT	10/16/2015	14:20	4.80	985.28	980.48	
PZ-19 PZ-2	WT WT	10/16/2015	13:28 0:00	6.60	983.58 978.12	976.98	COVERED
PZ-2 PZ-20	WT	10/16/2015 10/16/2015	13:22	6.16	982.28	976.12	GOVERED
PZ-21	WT	10/16/2015	15:06	5.41	989.15	983.74	
PZ-22R	WT	10/16/2015	14:44	7.55	988.78	981.23	
PZ-23	WT	10/16/2015	15:45	9.13	989.04	979.91	
20	.,,,	10/10/2010	10.70	0.10	000.04	0.0.01	

Monitoring Well ID	Well Type	Date	Time	Water Level	Top of Riser Elevation	Groundwater Elevation	Remarks
				(ft)	(ft)	(ft)	
PZ-24	WT	10/16/2015	15:09	4.26	988.99	984.73	
PZ-25	WT	10/16/2015	15:12	4.70	988.92	984.22	
PZ-26	WT	10/16/2015	0:00		989.05		HAS PRODUCT
PZ-28	WT	10/16/2015	15:13	3.91	989.02	985.11	
PZ-29R	WT	10/16/2015	12:47	1.10	988.22	987.12	
PZ-3	WT	10/16/2015	13:30	2.10	981.55	979.45	
PZ-30	WT	10/16/2015	0:00		985.25		COVERED
PZ-31	WT	10/16/2015	12:04	6.15	988.98	982.83	
PZ-4	WT	10/16/2015	16:05	2.89	981.32	978.43	
PZ-5	WT	10/16/2015	17:50	4.16	979.59	975.43	
PZ-6	WT	10/16/2015	13:42	6.16	981.83	975.67	
PZ-7	WT	10/16/2015	13:47	4.80	982.66	977.86	
PZ-8	WT	10/16/2015	0:00		983.11		COVERED
PZ-9	WT	10/16/2015	13:32	5.45	982.63	977.18	
VAW-115R	WT/S1	10/16/2015	15:16	6.27	985.24	978.97	
VBW-111	WT/S1	10/16/2015	13:22	4.50	984.26	979.76	
VBW-112	S1	10/16/2015	13:20	6.68	985.44	978.76	
VBW-113	WT	10/16/2015	14:27	6.12	985.87	979.75	
VCW-110	WT/S1	10/16/2015	0:00		985.84		COVERED
VDW-108	S2	10/16/2015	13:24	13.12	983.76	970.64	
VEW-105	WT	10/16/2015	0:00		988.08		COVERED
VEW-106	WT	10/16/2015	11:52	5.90	987.79	981.89	
VEW-114R	WT	10/16/2015	11:40	3.79	988.86	985.07	
VFW-104	WT/S2	10/16/2015	0:00		978.74		COULD NOT LOCATE
VPW-101	S1	10/16/2015	12:54	3.61	986.81	983.20	
VPW-102	S2	10/16/2015	11:15	5.11	966.75	961.64	
VPW-103	WT/S1	10/16/2015	15:21	3.32	982.05	978.73	

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	11/24/2015	10:17	27.15	964.96	937.81	
MW-101D	SR	11/24/2015	12:07	44.57	988.24	943.67	
MW-204D	SR	11/24/2015	12:04	33.81	994.26	960.45	
MW-301D	SR	11/24/2015	10:27	33.04	970.44	937.40	
MW-401D	SR	11/24/2015	12:30	37.03	974.57	937.54	
MW-402D	SR	11/24/2015	11:49	26.83	966.36	939.53	
MW-403D	SR	11/24/2015	11:54	35.34	977.36	942.02	
MW-404D	SR	11/24/2015	11:59	43.80	988.83	945.03	
MW-405D	SR	11/24/2015	12:16	39.20	982.45	943.25	
MW-407D	SR	11/24/2015	10:50	19.70	956.24	936.54	
MW-408D	SR	11/24/2015	10:54	20.55	957.07	936.52	
MW-409D	SR	11/24/2015	11:20	10.88	942.49	931.61	
MW-410D	SR	11/24/2015	11:02	14.51	947.63	933.12	
MW-411D	SR	11/24/2015	11:12	27.44	943.43	915.99	
MW-412D	SR	11/24/2015	11:08	26.86	949.64	922.78	
MW-413D	SR	11/24/2015	10:20	32.67	970.13	937.46	
MW-414D	SR	11/24/2015	10:24	34.44	971.91	937.47	
MW-416D	SR	11/24/2015	10:09	28.39	965.84	937.45	
MW-417D	SR	11/24/2015	10:13	27.49	964.96	937.47	
MW-418D	SR	11/24/2015	10:35	27.65	965.06	937.41	
MW-419D	SR	11/24/2015	11:28	30.28	967.40	937.12	
MW-419M	MB	11/24/2015	11:26	30.16	967.50	937.34	
MW-420D	SR	11/24/2015	11:35	28.04	965.26	937.22	
MW-420M	MB	11/24/2015	11:37	27.13	964.85	937.72	
MW-421D	SR	11/24/2015	11:40	21.17	958.50	937.33	
MW-422D	SR	11/24/2015	12:20	40.00	980.98	940.98	
MW-424D	SR	11/24/2015	12:24	38.85	979.74	940.89	
MW-432D	SR	11/24/2015	10:47	37.75	974.50	936.75	
MW-432M	MB	11/24/2015	10:48	22.75	974.90	952.15	
MW-433D	SR	11/24/2015	10:51	33.10	970.43	937.33	
MW-434D	SR	11/24/2015	11:01	28.10	965.33	937.23	
MW-435D	SR	11/24/2015	10:58	19.00	955.91	936.91	
MW-436D	SR	11/24/2015	10:54	25.35	962.37	937.02	
MW-437D	SR	11/24/2015	11:12	13.30	948.38	935.08	
MW-437D	SR	11/24/2015	11:41	35.35	972.59	937.24	
MW-439D	SR	11/24/2015	0:00	55.55	955.58	331.24	car over well
MW-440D	SR	11/24/2015	11:07	2.90	936.70	933.80	cai ovei weii
MW-441D	SR	11/24/2015	11:35	37.10	974.38	937.28	
MW-442D	SR	11/24/2015	12:15	38.40	974.36	937.28	
MW-443D	SR	11/24/2015	12:07	42.40	979.72	937.32	
MW-444D	SR	11/24/2015	11:22	7.20	934.18	926.98	
MW-447D	SR	11/24/2015	12:00	40.80	934.16	926.96	
MW-448D	SR		11:30			925.04	
	SR SR	11/24/2015		11.50	935.38		
MW-449D		11/24/2015	11:45	36.15	970.44	934.29	
MW-450D	SR	11/24/2015	11:20	17.75	910.51	892.76	
MW-451D	SR	11/24/2015	11:37	36.60	967.32	930.72	auta aia n
MW-453D	SR	11/24/2015	0:00		923.25		artesian

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	12/16/2015	11:45	27.77	964.96	937.19	
MW-101D	SR	12/16/2015	13:35	44.05	988.24	944.19	
MW-204D	SR	12/16/2015	13:39	33.50	994.26	960.76	
MW-301D	SR	12/16/2015	11:30	33.73	970.44	936.71	
MW-401D	SR	12/16/2015	13:02	37.52	974.57	937.05	
MW-402D	SR	12/16/2015	13:10	26.80	966.36	939.56	
MW-403D	SR	12/16/2015	13:21	35.20	977.36	942.16	
MW-404D	SR	12/16/2015	13:28	43.20	988.83	945.63	
MW-405D	SR	12/16/2015	13:46	38.77	982.45	943.68	
MW-407D	SR	12/16/2015	12:07	20.19	956.24	936.05	
MW-408D	SR	12/16/2015	12:15	21.03	957.07	936.04	
MW-409D	SR	12/16/2015	12:36	11.48	942.49	931.01	
MW-410D	SR	12/16/2015	12:24	14.92	947.63	932.71	
MW-411D	SR	12/16/2015	14:40	27.50	943.43	915.93	
MW-412D	SR	12/16/2015	14:48	27.07	949.64	922.57	
MW-413D	SR	12/16/2015	11:11	33.35	970.13	936.78	
MW-414D	SR	12/16/2015	11:15	35.03	971.91	936.88	
MW-416D	SR	12/16/2015	11:00	29.09	965.84	936.75	
MW-417D	SR	12/16/2015	11:05	28.16	964.96	936.80	
MW-418D	SR	12/16/2015	12:15	28.25	965.06	936.81	
MW-419D	SR	12/16/2015	12:50	30.75	967.40	936.65	
MW-419M	MB	12/16/2015	12:49	30.71	967.50	936.79	
MW-420D	SR	12/16/2015	12:45	28.52	965.26	936.74	
MW-420M	MB	12/16/2015	12:44	27.92	964.85	936.93	
MW-421D	SR	12/16/2015	12:55	21.68	958.50	936.82	
MW-422D	SR	12/16/2015	13:51	39.84	980.98	941.14	
MW-424D	SR	12/16/2015	13:55	38.72	979.74	941.02	
MW-432D	SR	12/16/2015	12:26	38.40	974.50	936.10	
MW-432M	MB	12/16/2015	12:25	22.40	974.90	952.50	
MW-433D	SR	12/16/2015	12:30	33.70	970.43	936.73	
MW-434D	SR	12/16/2015	12:40	28.65	965.33	936.68	
MW-435D	SR	12/16/2015	12:37	19.60	955.91	936.31	
MW-436D	SR	12/16/2015	12:34	25.99	962.37	936.38	
MW-437D	SR	12/16/2015	12:56	13.80	948.38	934.58	
MW-438D	SR	12/16/2015	13:25	35.90	972.59	936.69	
MW-439D	SR	12/16/2015	12:45	19.80	955.58	935.78	
MW-440D	SR	12/16/2015	12:50	3.40	936.70	933.30	
MW-441D	SR	12/16/2015	13:17	37.70	974.38	936.68	
MW-442D	SR	12/16/2015	13:48	39.00	975.68	936.68	
MW-443D	SR	12/16/2015	13:45	42.99	979.72	936.73	
MW-444D	SR	12/16/2015	13:06	7.80	934.18	926.38	
MW-447D	SR	12/16/2015	13:36	41.40	965.84	924.44	
MW-448D	SR	12/16/2015	13:11	12.00	935.38	923.38	
MW-449D	SR	12/16/2015	13:30	36.62	970.44	933.82	
MW-450D	SR	12/16/2015	13:02	17.40	910.51	893.11	
MW-451D	SR	12/16/2015	13:20	31.05	967.32	936.27	
MW-451D	SR	12/16/2015	0:00	01.00	923.25	300.Z1	Artesian

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
HA-1	S2	1/7/2016	13:21	7.32	982.24	974.92	
HA-2	S2	1/7/2016	13:23	6.57	982.70	976.13	
HA-3	S2	1/7/2016	13:28	8.35	982.61	974.26	
HA-4 HA-5	S1 WT	1/7/2016 1/7/2016	13:30 13:26	4.05 5.99	981.14 982.94	977.09 976.95	
IF-2	WT/S1	1/7/2016	0:00	5.99	982.94	976.95	frozon mud
IF-3	WT/S1	1/7/2016	0:00		978.61		frozen mud frozen mud
MW-130	S1	1/7/2016	11:23	3.94	986.02	982.08	110Ze11 IIIdd
MW-131	S1	1/7/2016	11:13	4.31	985.72	981.41	
MW-131	WT/S1	1/7/2016	11:30	3.73	984.07	980.34	
MW-133	S1	1/7/2016	11:41	4.83	983.13	978.30	
MW-134	WT/S1	1/7/2016	0:00	4.00	979.78	070.00	not measured
MW-135	WT/S1	1/7/2016	11:46	3.84	984.86	981.02	not modoured
MW-136	WT/S1	1/7/2016	0:00	0.0 .	985.67	001102	covered
MW-137	S2	1/7/2016	13:35	6.79	982.24	975.45	
MW-138	S1	1/7/2016	13:36	3.05	982.24	979.19	
MW-501	S2	1/7/2016	11:09	5.01	988.73	983.72	
MW-502	S1/S2	1/7/2016	12:00	4.42	990.20	985.78	
MW-503	S1	1/7/2016	13:58	6.81	994.49	987.68	
MW-504R	S1	1/7/2016	12:43	2.88	984.42	981.54	
MW-505	S1/S2	1/7/2016	12:38	5.55	989.28	983.73	
MW-506	S1	1/7/2016	12:37	3.93	988.96	985.03	
MW-507	S1	1/7/2016	12:23	5.63	988.96	983.33	
MW-508	S2	1/7/2016	11:40	10.70	989.07	978.37	
MW-509	S2	1/7/2016	14:01	7.89	985.40	977.51	
MW-510R	S2	1/7/2016	10:55	5.78	981.51	975.73	
MW-511	S2	1/7/2016	10:39	5.20	980.06	974.86	
MW-512	WT	1/7/2016	9:32	4.33	979.15	974.82	
MW-513	S2	1/7/2016	9:44	11.15	974.84	963.69	
MW-514	S2	1/7/2016	9:48	0.20	968.31	968.11	
MW-515	S2	1/7/2016	10:10	4.94	970.44	965.50	
MW-516	S2	1/7/2016	9:30	4.19	978.83	974.64	
MW-601	WT WT	1/7/2016	9:18	3.96 3.52	979.47	975.51	
MW-602 MW-603	WT	1/7/2016 1/7/2016	13:40 13:50	5.98	981.94 984.42	978.42 978.44	
MW-604	S1	1/7/2016	13:38	3.35	981.77	978.42	
MW-605	\$2	1/7/2016	9:26	4.85	978.62	973.77	
MW-606	S1	1/7/2016	13:40	4.66	982.87	978.21	
MW-607	WT/S1	1/7/2016	9:12	4.15	979.87	975.72	
MW-700	S1	1/7/2016	12:32	5.78	988.77	982.99	
MW-701	S1	1/7/2016	12:33	5.48	988.92	983.44	
MW-702	S1	1/7/2016	12:31	2.02	989.24	987.22	
MW-703R	S1	1/7/2016	12:20	3.05	988.84	985.79	
MW-705	S1	1/7/2016	11:43	10.85	989.01	978.16	
MW-706	WT	1/7/2016	11:38	6.20	987.67	981.47	
MW-707	S1	1/7/2016	12:30	5.45	989.06	983.61	
MW-708	S2	1/7/2016	12:07	7.73	985.24	977.51	
MW-709	S1	1/7/2016	12:14	7.25	989.10	981.85	
MW-710	WT/S1	1/7/2016	11:44	4.10	985.15	981.05	
MW-711	S1	1/7/2016	12:24	8.14	989.16	981.02	
MW-712	WT/S1	1/7/2016	0:00		982.31		not measured
MW-715	S1	1/7/2016	9:51	6.69	982.30	975.61	
MW-716	S2	1/7/2016	10:03	7.95	982.31	974.36	,
MW-717	S2	1/7/2016	0:00	2.05	979.82	070.00	frozen cap
MW-718	WT/S1	1/7/2016	10:21	3.95	980.27	976.32	
MW-719	S2	1/7/2016	10:27	6.08	979.01	972.93	
MW-720 MW-721	S1 S2	1/7/2016	9:36	6.99 7.34	979.29	972.30	
		1/7/2016	14:00		984.81	977.47	
MW-722R	WT	1/7/2016	11:27	2.78	987.55	984.77	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
MW-723	WT	1/7/2016	0:00		984.75		ABANDONED
MW-724	WT/S1	1/7/2016	9:34	T 00	979.15	070.50	not measured
MW-725 MW-726	S2 WT/S1	1/7/2016 1/7/2016	9:38 9:39	5.88 3.63	978.46 978.70	972.58 975.07	
MW-727	\$2	1/7/2016	14:40	5.28	977.84	973.07	
MW-728	WT/S1	1/7/2016	14:33	2.92	978.07	975.15	
MW-729	WT/S1	1/7/2016	10:31	3.55	977.20	973.65	
MW-730	S1	1/7/2016	13:54	2.85	982.08	979.23	
MW-731	S2	1/7/2016	10:29	4.65	977.19	972.54	
MW-732	S1	1/7/2016	9:24	4.11	978.89	974.78	
MW-733	S2	1/7/2016	9:28	6.53	978.98	972.45	
MW-734	WT/S1	1/7/2016	9:31	7.09	979.14	972.05	
MW-735	S2	1/7/2016	12:05	6.73	985.40	978.67	
MW-736	\$2 \$2	1/7/2016	13:50	4.60	979.45	974.85	
MW-737 MW-738	WT	1/7/2016 1/7/2016	10:25 11:35	6.26 2.72	978.96 987.75	972.70 985.03	
MW-739	WT	1/7/2016	11:45	3.90	989.05	985.03	
MW-740	S2	1/7/2016	10:45	1.04	973.82	972.78	
MW-741	S2	1/7/2016	10:18	8.09	976.19	968.10	
MW-742	S2	1/7/2016	14:18	7.05	980.10	973.05	
MW-743	S2	1/7/2016	9:41	8.35	976.89	968.54	
MW-744	WT	1/7/2016	11:39	6.20	987.36	981.16	
MW-745	S2	1/7/2016	10:47	6.34	982.49	976.15	
MW-746	S2	1/7/2016	11:32	8.52	987.64	979.12	
MW-747R	S1	1/7/2016	11:25	6.79	988.14	981.35	
MW-748	S1	1/7/2016	10:57	3.91	981.98	978.07	
MW-749	WT	1/7/2016	10:58	2.09	981.94	979.85	
MW-750 MW-753	WT WT	1/7/2016	11:13 11:19	3.40 2.68	985.32 985.37	981.92	
MW-754	WT	1/7/2016 1/7/2016	11:19	3.62	985.85	982.69 982.23	
MW-757	WT	1/7/2016	12:16	2.33	988.95	986.62	
MW-758	S2	1/7/2016	10:57	2.42	982.34	979.92	
MW-759	S2	1/7/2016	10:41	3.93	976.87	972.94	
MW-760	WT	1/7/2016	14:09	5.79	984.49	978.70	
MW-764	WT/S1	1/7/2016	13:54	4.31	982.78	978.47	
MW-765	WT	1/7/2016	12:26	2.91	988.96	986.05	
MW-766	WT	1/7/2016	0:00		987.15		covered
MW-767	WT	1/7/2016	12:26	5.86	988.92	983.06	ADAMBONES
MW-768	WT	1/7/2016	0:00	7.45	985.64	005.47	ABANDONED
MW-770 MW-771	S1/S2 WT	1/7/2016 1/7/2016	11:52 11:54	7.45 3.50	992.62 992.54	985.17 989.04	
MW-772R	WT	1/7/2016	12:15	5.48	332.34	303.04	
MW-772K	S1	1/7/2016	11:56	3.32	989.24	985.92	
MW-774	WT	1/7/2016	11:58	2.45	989.06	986.61	
MW-775	WT	1/7/2016	13:46	2.37	976.91	974.54	
MW-776	WT/S1	1/7/2016	10:43	1.63	974.01	972.38	
MW-777	S1	1/7/2016	11:26	5.79	985.65	979.86	
MW-778	S2	1/7/2016	13:55	5.39	982.78	977.39	
MW-779	S2	1/7/2016	9:20	5.90	979.40	973.50	
MW-780R	WT/S1	1/7/2016	12:09	4.43	984.63	980.20	
MW-781	WT WT/64	1/7/2016	10:09	4.63	982.06	977.43	
MW-782 MW-784	WT/S1 WT	1/7/2016 1/7/2016	10:41 10:37	4.17 2.71	980.19 980.09	976.02 977.38	
MW-786	S2	1/7/2016	9:22	8.16	979.35	977.38	
MW-787	WT	1/7/2016	10:01	6.60	982.12	975.52	
MW-788	WT	1/7/2016	11:29	5.56	986.90	981.34	
MW-789	WT/S1	1/7/2016	11:28	3.00	982.43	979.43	
MW-790	WT	1/7/2016	12:30	3.10	988.92	985.82	
MW-792	S2	1/7/2016	12:28	10.27	989.02	978.75	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Туре			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
MW-793	WT/S1	1/7/2016	0:00		982.03		covered
MW-794	WT/S1	1/7/2016	10:07	5.68	982.07	976.39	
MW-795	WT	1/7/2016	0:00		982.12		has product
MW-796	WT/S1	1/7/2016	14:15	4.50	980.25	975.75	
MW-797	S1	1/7/2016	0:00		985.68		ABANDONED
MW-798	S2	1/7/2016	0:00	7.00	982.19	07470	has product
MW-799	S2	1/7/2016	10:11	7.39	982.09	974.70	
MW-800 MW-801	S2 S1	1/7/2016 1/7/2016	10:38 0:00	6.20	978.91 987.12	972.71	acusered
	WT			3.40		985.31	covered
MW-802 MW-804R	S1	1/7/2016 1/7/2016	12:40 12:39	10.36	988.71 988.77	978.41	
MW-805	WT	1/7/2016	12.39	3.78	985.92	982.14	
MW-806	WT	1/7/2016	0:00	3.76	982.15	302.14	covered
MW-807	S2	1/7/2016	9:56	9.85	982.08	972.23	covered
MW-808	\$2	1/7/2016	10:05	7.68	982.20	974.52	
MW-809	S1/S2	1/7/2016	10:13	8.29	982.16	973.87	
MW-810	WT	1/7/2016	14:23	8.18	980.40	972.22	
MW-811	WT	1/7/2016	0:00		982.88		frozen cap
MW-812	S2	1/7/2016	9:57	5.02	969.95	964.93	·
MW-813	S2	1/7/2016	10:02	5.89	975.43	969.54	
MW-814	WT/S1	1/7/2016	14:25	5.67	976.17	970.50	
MW-815	WT/S1	1/7/2016	0:00		979.30		blocked
N001	WT	1/7/2016	0:00		985.43		covered
N002	WT	1/7/2016	12:51	5.45	985.20	979.75	
N003	WT	1/7/2016	13:32	4.20	985.28	981.08	
N1	WT	1/7/2016	13:34	5.75	989.43	983.68	
N10	WT	1/7/2016	0:00		982.92		covered
N11	WT	1/7/2016	9:43	2.57	981.63	979.06	
N12	WT	1/7/2016	9:47	9.10	984.82	975.72	
N13	WT WT	1/7/2016	9:45	8.36	982.21	973.85	
N15 N16	WT	1/7/2016 1/7/2016	9:39 9:34	4.31 2.70	982.47 982.04	978.16 979.34	
N17	WT	1/7/2016	9:35	3.55	982.23	978.68	
N2	WT	1/7/2016	0:00	3.33	989.37	970.00	covered
N23	WT	1/7/2016	9:37	6.18	980.57	974.39	covered
N25	WT	1/7/2016	12:57	4.70	985.33	980.63	
N26	WT	1/7/2016	12:55	4.30	983.29	978.99	
N57	WT	1/7/2016	9:43	7.55	982.50	974.95	
N62 (E2)	WT	1/7/2016	9:41	4.70			
N63	WT	1/7/2016	14:05	7.80	979.19	971.39	
N64	WT	1/7/2016	14:03	7.90	978.34	970.44	
N7	WT	1/7/2016	0:00		985.19		covered
N9	WT	1/7/2016	12:52	7.00	985.38	978.38	
PZ-1	WT	1/7/2016	13:15	3.37	978.64	975.27	
PZ-10	WT	1/7/2016	13:47	6.58	983.23	976.65	
PZ-11	WT	1/7/2016	0:00		983.34		covered
PZ-12	WT	1/7/2016	12:01	1.16	982.95	981.79	
PZ-13	WT	1/7/2016	12:02	1.01	983.61	982.60	
PZ-14	WT	1/7/2016	11:59	2.97	984.21	981.24	
PZ-15	WT	1/7/2016	11:58	4.89	985.51	980.62	
PZ-16R	WT WT	1/7/2016 1/7/2016	11:56	4.95	985.16	980.21	
PZ-17 PZ-18	WT	1/7/2016	11:47 11:49	2.89 3.79	983.49 985.28	980.60 981.49	
PZ-18 PZ-19	WT	1/7/2016	13:48	5.94	983.58	981.49	
PZ-19	WT	1/7/2016	0:00	5.84	978.12	311.04	covered
PZ-20	WT	1/7/2016	13:56	3.62	982.28	978.66	Covereu
PZ-21	WT	1/7/2016	12:18	2.47	988.88	986.41	
PZ-22R	WT	1/7/2016	12:44	5.65	988.78	983.13	
PZ-23	WT	1/7/2016	12:22	5.77	989.04	983.27	

Monitoring Well ID	Well Type	Date	Time	Water Level	Top of Riser Elevation	Groundwater Elevation	Remarks
	.,,,,			(ft)	(ft)	(ft)	
PZ-24	WT	1/7/2016	12:09	2.64	988.82	986.18	
PZ-25	WT	1/7/2016	12:07	2.33	988.71	986.38	
PZ-26	WT	1/7/2016	0:00		989.05		has product
PZ-28	WT	1/7/2016	12:11	3.18	989.02	985.84	
PZ-29R	WT	1/7/2016	12:35	3.14	988.22	985.08	
PZ-3	WT	1/7/2016	11:40	4.08	981.55	977.47	
PZ-30	WT	1/7/2016	11:50	4.70	985.25	980.55	
PZ-31	WT	1/7/2016	11:46	3.55	988.98	985.43	
PZ-4	WT	1/7/2016	13:29	3.20	981.32	978.12	
PZ-5	WT	1/7/2016	9:28	3.86	979.59	975.73	
PZ-6	WT	1/7/2016	13:44	4.71	981.83	977.12	
PZ-7	WT	1/7/2016	13:32	4.49	982.66	978.17	
PZ-8	WT	1/7/2016	13:27	4.94	983.11	978.17	
PZ-9	WT	1/7/2016	13:41	4.42	982.63	978.21	
VAW-115R	WT/S1	1/7/2016	11:17	3.66	985.24	981.58	
VBW-111	WT/S1	1/7/2016	11:35	4.38	984.26	979.88	
VBW-112	S1	1/7/2016	11:31	6.48	985.44	978.96	
VBW-113	WT	1/7/2016	11:33	4.62	985.87	981.25	
VCW-110	WT/S1	1/7/2016	11:51	4.79	985.84	981.05	covered
VDW-108	S2	1/7/2016	13:52	9.04	983.76	974.72	
VEW-105	WT	1/7/2016	0:00		988.08		covered
VEW-106	WT	1/7/2016	11:33	3.37	987.79	984.42	
VEW-114R	WT	1/7/2016	11:50	3.52	988.86	985.34	
VFW-104	WT/S2	1/7/2016	10:33	3.45	978.74	975.29	
VPW-101	S1	1/7/2016	11:07	3.45	986.81	983.36	
VPW-102	S2	1/7/2016	9:54	2.65	966.75	964.10	
VPW-103	WT/S1	1/7/2016	10:46	3.50	982.05	978.55	

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	1/12/2016	13:49	22.78	964.96	942.18	
MW-101D	SR	1/12/2016	12:45	40.20	988.15	947.95	
MW-204D	SR	1/12/2016	12:55	30.29	994.26	963.97	
MW-301D	SR	1/12/2016	11:20	28.77	970.44	941.67	
MW-401D	SR	1/12/2016	12:00	32.43	974.57	942.14	
MW-402D	SR	1/12/2016	13:30	22.34	966.36	944.02	
MW-403D	SR	1/12/2016	13:45	30.93	977.36	946.43	
MW-404D	SR	1/12/2016	12:38	39.45	988.83	949.38	
MW-405D	SR	1/12/2016	12:14	34.55	982.45	947.90	
MW-407D	SR	1/12/2016	14:29	14.84	956.24	941.40	
MW-408D	SR	1/12/2016	14:35	15.65	957.07	941.42	
MW-409D	SR	1/12/2016	14:55	7.14	942.49	935.35	
MW-410D	SR	1/12/2016	14:45	10.33	947.63	937.30	
MW-411D	SR	1/12/2016	15:30	24.04	943.43	919.39	
MW-412D	SR	1/12/2016	15:45	24.49	949.64	925.15	
MW-413D	SR	1/12/2016	11:25	28.22	970.13	941.91	
MW-414D	SR	1/12/2016	11:10	29.90	971.91	942.01	
MW-416D	SR	1/12/2016	11:40	23.92	965.84	941.92	
MW-417D	SR	1/12/2016	13:55	23.13	964.96	941.83	
MW-418D	SR	1/12/2016	13:30	23.26	965.06	941.80	
MW-419D	SR	1/12/2016	14:12	25.50	967.40	941.90	
MW-419M	MB	1/12/2016	14:10	25.63	967.50	941.87	
MW-420D	SR	1/12/2016	14:00	23.55	965.26	941.71	
MW-420M	MB	1/12/2016	14:01	22.99	964.85	941.86	
MW-421D	SR	1/12/2016	14:15	16.65	958.50	941.85	
MW-422D	SR	1/12/2016	12:30	35.69	980.98	945.29	
MW-424D	SR	1/12/2016	12:22	34.53	979.74	945.21	
MW-432D	SR	1/12/2016	16:00	33.17	974.50	941.33	
MW-432M	MB	1/12/2016	15:55	19.83	974.90	955.07	
MW-433D	SR	1/12/2016	12:45	28.40	970.43	942.03	
MW-434D	SR	1/12/2016	0:00		965.33		snow covered
MW-435D	SR	1/12/2016	0:00		955.91		snow covered
MW-436D	SR	1/12/2016	12:52	20.20	962.37	942.17	
MW-437D	SR	1/12/2016	13:26	8.65	948.38	939.73	
MW-438D	SR	1/12/2016	14:15	30.70	972.59	941.89	
MW-439D	SR	1/12/2016	13:15	13.70	955.58	941.88	
MW-440D	SR	1/12/2016	13:20		936.70		artesian
MW-441D	SR	1/12/2016	14:00	32.62	974.38	941.76	
MW-442D	SR	1/12/2016	14:45	33.75	975.68	941.93	
MW-443D	SR	1/12/2016	14:40	37.80	979.72	941.92	
MW-444D	SR	1/12/2016	13:40	3.90	934.18	930.28	
MW-447D	SR	1/12/2016	14:35	38.70	965.84	927.14	
MW-448D	SR	1/12/2016	13:50	9.20	935.38	926.18	
MW-449D	SR	1/12/2016	0:00		970.44		frozen
MW-450D	SR	1/12/2016	13:35	15.50	910.51	895.01	
MW-451D	SR	1/12/2016	0:00		967.32		snow covered
MW-453D	SR	1/12/2016	0:00		923.25		artesian

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Туре			Level (ft)	Elevation (ft)	Elevation (ft)	
CSX-22	TOR	1/15/2016	14:02	6.31	967.35	961.04	
MW-101S	TOR	1/15/2016	13:32	4.91	988.04	983.13	
MW-204S	TOR	1/15/2016	13:30	12.30	993.94	981.64	
MW-301S	TOR	1/15/2016	14:42	3.82	971.03	967.21	
MW-401S	TOR	1/15/2016	14:21	12.87	974.73	961.86	
MW-402S	TOR	1/15/2016	11:40	8.65	966.62	957.97	
MW-403S	TOR	1/15/2016	12:35	5.89	976.61	970.72	
MW-404S	TOR	1/15/2016	13:20	6.15	989.50	983.35	
MW-405S	TOR	1/15/2016	12:53	5.47	982.47	977.00	
MW-407S	TOR	1/15/2016	12:15	2.00	952.99	950.99	
MW-412S	TOR	1/15/2016	13:01	9.80	949.79	939.99	
MW-415S	TOR	1/15/2016	13:07	7.07	976.78	969.71	
MW-422S	TOR	1/15/2016	13:01	9.17	981.27	972.10	
MW-423S	TOR	1/15/2016	13:07	26.85	978.96	952.11	
MW-424S	TOR	1/15/2016	13:11	20.18	980.06	959.88	
MW-425S	TOR	1/15/2016	11:58	6.77	976.09	969.32	
MW-426S	TOR	1/15/2016	11:49	2.12	967.24	965.12	
MW-427S	TOR	1/15/2016	0:00		974.54		covered
MW-428S	TOR	1/15/2016	0:00		985.43		frozen
MW-429S	TOR	1/15/2016	13:36	6.70	985.08	978.38	
MW-430S	TOR	1/15/2016	13:00	9.10	984.76	975.66	
MW-431S	TOR	1/15/2016	13:34	6.45	982.46	976.01	
MW-445S	TOR	1/15/2016	12:23	17.71	976.07	958.36	
MW-446SR	TOR	1/15/2016	12:41	7.18	972.04	964.86	
MW-452S	TOR	1/15/2016	13:48	11.17	989.13	977.96	
MW-454S	TOR	1/15/2016	11:25	5.04	969.38	964.34	
MW-455S	TOR	1/15/2016	14:13	5.95	976.65	970.70	

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	2/17/2016	10:30	24.52	964.96	940.44	
MW-101D	SR	2/17/2016	15:59	41.29	988.15	946.86	
MW-204D	SR	2/17/2016	16:05	31.49	994.26	962.77	
MW-301D	SR	2/17/2016	10:50	30.39	970.44	940.05	
MW-401D	SR	2/17/2016	11:15	34.28	974.57	940.29	no cap
MW-402D	SR	2/17/2016	11:25	23.66	966.36	942.70	•
MW-403D	SR	2/17/2016	14:23	31.19	977.36	946.17	
MW-404D	SR	2/17/2016	15:54	40.53	988.83	948.30	
MW-405D	SR	2/17/2016	15:40	36.03	982.45	946.42	
MW-407D	SR	2/17/2016	14:55	16.89	956.24	939.35	
MW-408D	SR	2/17/2016	15:05	17.72	957.07	939.35	
MW-409D	SR	2/17/2016	15:22	8.71	942.49	933.78	
MW-410D	SR	2/17/2016	15:12	12.05	947.63	935.58	
MW-411D	SR	2/17/2016	12:15	26.27	943.43	917.16	
MW-412D	SR	2/17/2016	12:00	25.17	949.64	924.47	
MW-413D	SR	2/17/2016	10:12	30.03	970.13	940.10	
MW-414D	SR	2/17/2016	10:00	31.72	971.91	940.19	
MW-416D	SR	2/17/2016	10:20	24.78	965.84	941.06	
MW-417D	SR	2/17/2016	10:40	24.88	964.96	940.08	
MW-418D	SR	2/17/2016	11:00	23.74	965.06	941.32	
MW-419D	SR	2/17/2016	14:43	27.49	967.40	939.91	
MW-419M	MB	2/17/2016	14:45	27.47	967.50	940.03	
MW-420D	SR	2/17/2016	14:33	25.29	965.26	939.97	
MW-420M	MB	2/17/2016	14:35	24.72	964.85	940.13	
MW-421D	SR	2/17/2016	15:28	18.49	958.50	940.01	
MW-422D	SR	2/17/2016	15:45	36.96	980.98	944.02	
MW-424D	SR	2/17/2016	15:48	35.85	979.74	943.89	
MW-432D	SR	2/17/2016	13:20	35.08	974.50	939.42	
MW-432M	MB	2/17/2016	13:25	20.20	974.90	954.70	
MW-433D	SR	2/17/2016	13:10	30.39	970.43	940.04	
MW-434D	SR	2/17/2016	13:06	25.34	965.33	939.99	
MW-435D	SR	2/17/2016	13:03	16.22	955.91	939.69	
MW-436D	SR	2/17/2016	12:59	22.60	962.37	939.77	
MW-437D	SR	2/17/2016	12:45	10.59	948.38	937.79	
MW-438D	SR	2/17/2016	13:43	32.65	972.59	939.94	
MW-439D	SR	2/17/2016	12:54	16.29	955.58	939.29	
MW-440D	SR	2/17/2016	12:51	0.40	936.70	936.30	
MW-441D	SR	2/17/2016	13:34	34.30	974.38	940.08	
MW-442D	SR	2/17/2016	16:10	35.73	975.68	939.95	
MW-443D	SR	2/17/2016	16:15	39.62	979.72	940.10	
MW-444D	SR	2/17/2016	12:30	5.51	934.18	928.67	
MW-447D	SR	2/17/2016	12:52	40.05	965.84	925.79	break ice
MW-448D	SR	2/17/2016	12:34	10.29	935.38	925.09	
MW-449D	SR	2/17/2016	13:47	34.84	970.44	935.60	break ice
MW-450D	SR	2/17/2016	11:48	17.34	910.51	893.17	
MW-451D	SR	2/17/2016	13:37	27.85	967.32	939.47	break ice
MW-453D	SR	2/17/2016	13:55		923.25		Artesian

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	3/2/2016	11:39	21.59	964.96	943.37	
MW-101D	SR	3/2/2016	12:28	39.30	988.15	948.85	
MW-204D	SR	3/2/2016	12:30	29.67	994.26	964.59	
MW-301D	SR	3/2/2016	11:31	26.22	970.44	944.22	
MW-401D	SR	3/2/2016	11:56	31.35	974.57	943.22	
MW-402D	SR	3/2/2016	12:00	21.19	966.36	945.17	
MW-403D	SR	3/2/2016	12:05	29.85	977.36	947.51	
MW-404D	SR	3/2/2016	12:22	38.57	988.83	950.26	
MW-405D	SR	3/2/2016	12:10	34.12	982.45	948.33	
MW-407D	SR	3/2/2016	13:35	13.64	956.24	942.60	
MW-408D	SR	3/2/2016	13:40	14.46	957.07	942.61	
MW-409D	SR	3/2/2016	13:50	6.36	942.49	936.13	
MW-410D	SR	3/2/2016	13:55	9.29	947.63	938.34	
MW-411D	SR	3/2/2016	14:20	25.27	943.43	918.16	
MW-412D	SR	3/2/2016	14:22	23.48	949.64	926.16	
MW-413D	SR	3/2/2016	11:25	27.15	970.13	942.98	
MW-414D	SR	3/2/2016	11:28	28.85	971.91	943.06	
MW-416D	SR	3/2/2016	11:36	22.85	965.84	942.99	
MW-417D	SR	3/2/2016	11:42	21.93	964.96	943.03	
MW-418D	SR	3/2/2016	11:47	22.04	965.06	943.02	
MW-419D	SR	3/2/2016	13:28	24.35	967.40	943.05	
MW-419M	MB	3/2/2016	13:27	24.96	967.50	942.54	
MW-420D	SR	3/2/2016	13:20	22.20	965.26	943.06	
MW-420M	MB	3/2/2016	13:25	21.93	964.85	942.92	
MW-421D	SR	3/2/2016	13:31	15.43	958.50	943.07	
MW-422D	SR	3/2/2016	12:15	34.68	980.98	946.30	
MW-424D	SR	3/2/2016	12:18	33.55	979.74	946.19	
MW-432D	SR	3/2/2016	14:26	31.97	974.50	942.53	
MW-432M	MB	3/2/2016	14:28	18.87	974.90	956.03	
MW-433D	SR	3/2/2016	14:30	27.28	970.43	943.15	
MW-434D	SR	3/2/2016	14:38	22.21	965.33	943.12	
MW-435D	SR	3/2/2016	14:35	12.95	955.91	942.96	
MW-436D	SR	3/2/2016	14:33	19.26	962.37	943.11	
MW-437D	SR	3/2/2016	14:48	7.57	948.38	940.81	
MW-438D	SR	3/2/2016	15:06	29.51	972.59	943.08	
MW-439D	SR	3/2/2016	14:42	12.35	955.58	943.23	
MW-440D	SR	3/2/2016	14:44	12.00	936.70	5.5.25	artesian
MW-441D	SR	3/2/2016	15:00	31.21	974.38	943.17	
MW-442D	SR	3/2/2016	15:30	32.60	975.68	943.08	
MW-443D	SR	3/2/2016	15:21	36.71	979.72	943.01	
MW-444D	SR	3/2/2016	14:23	3.25	934.18	930.93	
MW-447D	SR	3/2/2016	15:17	38.23	965.84	927.61	
MW-448D	SR	3/2/2016	14:55	8.80	935.38	926.58	
MW-449D	SR	3/2/2016	15:10	31.02	970.44	939.42	
MW-450D	SR	3/2/2016	14:09	15.17	910.51	895.34	
MW-451D	SR	3/2/2016	15:02	24.80	967.32	942.52	
MW-453D	SR	3/2/2016	15:15		923.25		artesian

Attachment B
Data Usability Summary Reports

Data Usability Summary Report (DUSR) Vandalia, Ohio - Quarterly Monitoring Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-60328-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
415S-012616-1445	759-012616-1240	4184-012616-0001
420D-012616-1245	775-012616-1135	4184-012616-0002
420M-012616-1130	776-012616-1620	3114-012616-0001
740-012616-1400	800-012616-1520	3114-012616-0002

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- · Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- · Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoverie
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- · Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for eac project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
VM567641_00013	RESTEK Reagent	STD	See Action #1 Below
VM567641S_00007	RESTEK Reagent	STD	See Action #1 Below
VM567642_00015	RESTEK Reagent	STD	See Action #1 Below
VM567642S_00005	RESTEK Reagent	STD	See Action #1 Below
VM567643_00020	RESTEK Reagent	STD	See Action #1 Below
VM567645S_00016	RESTEK Reagent	STD	See Action #2 Below
VM568720_00009	RESTEK Reagent	STD	See Action #2 Below
VM569724_00003	RESTEK Reagent	STD	See Action #3 Below

Action #1

This standard expired "February 2016". The lab listed the expiration date as 2/29/16, which is supported by the RESTEK website. As samples were analyzed 2/1/16 and 2/2/16, the reviewer concedes with the laboratory listed date and the RESTEK website for expiration of the end of the month rather than the beginning. No action required.

Action #2

This standard expired "November 30, 2015". This standard was used to prepare the ICV and ICAL run on 11/20/15. No action required.

Action #3

This standard expired "January 31, 2016". This standard was used to prepare the ICAL run on 11/20/15. No action is required.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	420M-012616-1130	25x	Dilution req'd by sample matrix	No further action
All VOCs	1x	420D-012616-1245	~22.2x	Dilution req'd by sample matrix	No further action
All VOCs	1x	759-012616-1240	~1.43x	Dilution req'd by sample matrix	No further action

Action:

No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary. Request Reanalysis - Contact lab to inquire on the reason for the higher reporting limit and whether the sample can be resampled within the maximum allowable holding time.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the associated limit, or a relative retention factor (RRF) less than the minimum RRF limit:

Inst.	Date / Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
A3UX16	11/20/15	Bromodichloromethane	7.10	RRF < 0.3	All Project Samples	J+/R
	17:08	cis-1,3-Dichloropropene	7.70	RRF < 0.3	All Project Samples	J+/R
		Dibromochloromethane	9.70	RRF < 0.2	All Project Samples	J+/R
		1,2-Dibromoethane	5.70	RRF < 0.2	All Project Samples	J+/R

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX16	11/20/15	Acrolein	87.10	0.02	None, not target analyte	None.
	19:48	Bromodichloromethane	0.60	RRF < 0.3	None, qualified by ICAL	None.
A3UX16	02/01/16	Acrolein	85.60	0.02	None, not target analyte	None.
	09:46					
A3UX16	02/02/16	Acrolein	78.70	0.02	None, not target analyte	None.
	09:24	Bromodichloromethane	-0.60	RRF < 0.3	None, qualified by ICAL	None.
		1,2-Dibromoethane	-8.00	RRF < 0.2	None, qualified by ICAL	None.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
3114-012616-0001	2-Butanone (MEK)	1.1 ug/L	None, all samples ND.	None.
Equipment Blank				
4184-012616-0002	2-Butanone (MEK)	0.9 ug/L	None, all samples ND.	None.
Equipment Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantif the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	415S-012616-1445	4184-012616-0001	%RPD	sample results with:
cis-1,2-Dichloroethene	1 ug/L	1 ug/L	NA	None, Abs. Diff < RL
Trichloroethene	0.74 ug/L	0.69 ug/L	NA	None, Abs. Diff < RL

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 3/15/2016

Data Usability Summary Report (DUSR) Vandalia, Ohio - Quarterly Monitoring Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-60391-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
605-012916-1445	411D-012916-1125	3114-012916-0001
402D-012916-1525	412D-012916-1135	3114-012916-0002
424D-012916-1550	4184-012916-0002	4184-012916-0001

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- · Holding Times
- · Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- · Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- · Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
VM567641_00013	RESTEK Reagent	STD	See Action #1 Below
VM567642_00015	RESTEK Reagent	STD	See Action #1 Below
VM567642S_00005	RESTEK Reagent	STD	See Action #1 Below
VM567643_00020	RESTEK Reagent	STD	See Action #1 Below
VM569724_00003	RESTEK Reagent	STD	See Action #2 Below

Action #1

This standard expired "February 2016". The lab listed the expiration date as 2/29/16, which is supported by the RESTEK website. As samples were analyzed 2/1/16 and 2/2/16, the reviewer concedes with the laboratory listed date and the RESTEK website for expiration of the end of the month rather than the beginning. No action required.

Action #2

This standard expired "January 31, 2016". This standard was used to prepare the ICAL run on 11/20/15. No action is required.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	411D-012916-1125	20x	Dilution req'd by sample matrix	No further action
All VOCs	1x	412D-012916-1135	10x	Dilution req'd by sample matrix	No further action
All VOCs	1x	3114-012916-0001	8x	Dilution req'd by sample matrix	No further action
All VOCs	1x	424D-012916-1550	~3.33x	Dilution req'd by sample matrix	No further action

Action

No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary. Request Reanalysis - Contact lab to inquire on the reason for the higher reporting limit and whether the sample can be resampled within the maximum allowable holding time.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the associated limit, or a relative retention factor (RRF) less than the minimum RRF limit:

Inst.	Date / Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
A3UX11	01/29/16	All VOCs	Within	Within	None, all within limits.	None.
	12:13					
A3UX17	01/26/16	Acetone	53.00	0.09	4184-012916-0001	J Flag
	12:23	Bromodichloromethane	8.10	RRF < 0.3	4184-0001, 0002	R Flag
		cis-1,3-Dichloropropene	14.70	RRF < 0.3	4184-0001, 0002	R Flag

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the associated limit, or a relative retention factor (RRF) less than the minimum RRF limit:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX17	02/03/16	Chloroethane	-25.80	0.06	4184-0001, 0002	J/UJ
	11:01					
A3UX17	01/26/16	Bromodichloromethane	-1.80	RRF < 0.3	Already qualified by ICAL.	R Flag
	14:36					
A3UX17	02/03/16	Bromodichloromethane	-9.60	RRF < 0.3	Already qualified by ICAL.	R Flag
	11:01					

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
MB 240-216247/6	Methylene chloride	0.405 ug/L	None, all samples ND.	None.
216247				
3114-012916-0002	Acetone	2.5 ug/L	424D, 412D, Dup, 411D	U
Equipment Blank	2-Butanone (MEK)	1.7 ug/L	None, all samples ND.	
4184-012916-0001	Acetone	1.1 ug/L	424D, 412D, Dup, 411D	U
Equipment Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Туре	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
411D-012916-1125	MS	All VOCs	Various	Within	Within	None, all within limits.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	412D-012916-1135	3114-012916-0001	%RPD	sample results with:
cis-1,2-Dichloroethene	13 ug/L	13 ug/L	NA	None, Abs. Diff < RL
trans-1,2-Dichloroethene	3.8 J ug/L	3.2 J ug/L	NA	None, Abs. Diff < RL
Acetone	13 J ug/L	11 J ug/L	NA	None, Abs. Diff < RL
Trichloroethene	220 ug/L	210 ug/L	5%	

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 3/15/2016

Data Usability Summary Report (DUSR) Vandalia MAHLE

Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-60393_59968_60312

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002) USEPA National Functional Guidelines for Inorganic Data Review (EPA 540-R-013-001)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

ms to the following samples.	
Sample ID	Sample ID
B005-011416-1050	730-012716-1145
4184-011416-0001	413D-012716-1350
SW01-011416-1435	3114-012716-0001
SW04-011416-1450	4184-012716-0001
B006-011416-1055	446S-012716-1115
C001-011416-1115	301S-012716-1410
D001-011416-1200	515-012716-1555
E001-011416-1130	4184-012716-0002
E002-011416-1145	4184-012816-0001
G004-011416-1325	445S-012816-1150
G006-011416-1350	741-012816-1300
F001-011416-1415	425S-012816-1430
426S-012716-1030	103-012816-1550

Sample ID 4184-012816-0002

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B/624	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- · Initial Calibration Procedures
- Continuing Calibration Procedures
- · Blank Sample Analysis
- · System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- · Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
240-59968-8	G006-011416-1350	W	See Action #1 Below

Action #1

Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated reporting limit. The following sample was submitted for volatile analysis with insufficient preservation (pH>2)

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
Various Analytes	1x	C001-011416-1115	1.43x	Dilution req'd by sample matrix	No further action
Various Analytes	1x	E001-011416-1130	1.43x	Dilution req'd by sample matrix	No further action
Various Analytes	1x	SW04-011416-1450	2x	Dilution req'd by sample matrix	No further action
Various Analytes	1x	D001-011416-1200	2.5x	Dilution req'd by sample matrix	No further action
Various Analytes	1x	425S-012816-1430	20x	Dilution req'd by sample matrix	No further action

Action:

No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary.

Request Reanalysis - Contact lab to inquire on the reason for the higher reporting limit and whether the sample can be resampled within the maximum allowable holding time.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Conen.	Affected Sample(s)	Qualifiers
EB (3114-012716-0001)	Acetone	1.50 ug/L	None, Sample ND	
	2-Butanone (MEK)	1.30 ug/L	4184-012716-0002	U
TB (4184-011416-0001)	Acetone	70.00 ug/L	SW04-011416-1450	U
	Methylene chloride	0.66 ug/L	None, Sample ND	
EB (4184-012716-0002)	2-Butanone (MEK)	0.88 ug/L	3114-012716-0001	U
TB (4184-012816-0001)	Acetone	2.30 ug/L	4184-012816-0002	U
EB (4184-012816-0002)	Acetone	2.80 ug/L	4184-012816-0001	U
	2-Butanone (MEK)	1.60 ug/L	None, Sample ND	
MB 240-216247/6	Methylene chloride	0.405 ug/L	None, Sample ND	

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date:

2/10/2016

C:Vandalia\[240-60393_59968_60312_DV-EF.xlsm]Final Report

Data Usability Summary Report (DUSR) Vandalia, Ohio - Quarterly Monitoring Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-60448-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
607-020116-1620	731-020116-1345	4184-020116-0001
717-020116-1440	734-020116-1505	3114-020116-0001
725-020116-1355	743-020116-1235	3114-020116-0002
729-020116-1255	746-020116-1550	

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- · Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- · Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
240-60448-11	4184-020116-0001	WG	See Action #1 Below
240-60448-7	743-020116-1235	WG	See Action #1 Below
VM567641_00013	RESTEK Reagent	STD	See Action #2 Below
VM567641S_00007	RESTEK Reagent	STD	See Action #2 Below
VM567642_00015	RESTEK Reagent	STD	See Action #2 Below
VM567642S_00005	RESTEK Reagent	STD	See Action #2 Below
VM567643_00020	RESTEK Reagent	STD	See Action #2 Below
VM567645S_00016	RESTEK Reagent	STD	See Action #3 Below
VM568720_00009	RESTEK Reagent	STD	See Action #3 Below
VM569724_00003	RESTEK Reagent	STD	See Action #4 Below

Action #1

Surrogates recovered low for the initial run for these samples, so they were rerun out of hold. The surrogates for the reanalyses were within limits, but due to more strict qualifcation on out-of-hold data, the initial runs were kept. Out of hold data is non-reportable, and qualifed "J/R".

Action #2

This standard expired "February 2016". The lab listed the expiration date as 2/29/16, which is supported by the RESTEK website. As samples were analyzed 2/1/16 and 2/2/16, the reviewer concedes with the laboratory listed date and the RESTEK website for expiration of the end of the month rather than the beginning. No action required.

Action #3

 $This \ standard \ expired \ "November 30, 2015". \ This \ standard \ was \ used \ to \ prepare \ the \ ICV \ and \ ICAL \ run \ on \ 11/20/15. \ No \ action \ required.$

Action #4

This standard expired "January 31, 2016". This standard was used to prepare the ICAL run on 11/20/15. No action is required.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the associated limit, or a relative retention factor (RRF) less than the minimum RRF limit:

	Date /					
Inst.	Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
A3UX10	12/10/15	All VOCs	NA	NA	Samples out of hold.	None. Applicable data
	13:55					not reported.
A3UX16	11/20/15	Bromodichloromethane	7.10	RRF < 0.3	All Project Samples	J+/R
	17:08	cis-1,3-Dichloropropene	7.70	RRF < 0.3	All Project Samples	J+/R
		Dibromochloromethane	9.70	RRF < 0.2	All Project Samples	J+/R
		1,2-Dibromoethane	5.70	RRF < 0.2	All Project Samples	J+/R

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the associated limit, or a relative retention factor (RRF) less than the minimum RRF limit:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX16	11/20/15	Acrolein	87.10	0.02	None, not target analyte	None.
	19:48	Bromodichloromethane	0.60	RRF < 0.3	None, qualified by ICAL	None.
A3UX16	02/05/16	Acrolein	92.10	0.02	None, not target analyte	None.
	10:23	1,1-Dichloroethene	35.00	0.31	All Project Samples	J/UJ
		1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45.40	0.27	All Project Samples	J/UJ
		Acetone	41.00	0.06	All Project Samples	J/UJ
		Iodomethane	33.00	0.51	None, not target analyte	None.
		Carbon disulfide	39.00	0.99	All Project Samples	J/UJ
		Vinyl acetate	-26.70	0.20	None, not target analyte	None.
		1,2-Dichloroethane	-20.90	0.23	All Project Samples	J/UJ
		trans-1,4-Dichloro-4-butene	-33.80	0.06	None, not target analyte	None.
		Bromodichloromethane	-4.50	RRF < 0.3	None, qualified by ICAL	None.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
3114-020116-0001	Acetone	1.3 ug/L	None, all samples ND.	None.
Equipment Blank	2-Butanone (MEK)	1.1 ug/L	None, all samples ND.	None.
4184-020116-0001	Acetone	1.6 ug/L	None, all samples ND.	None.
Equipment Blank	2-Butanone (MEK)	1.0 ug/L	None, all samples ND.	None.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria, with the following exception(s):

VOC Surrogate Percent Recovery Criteria							
Surrogate		Aqueous Matrix (%)	queous Matrix (%) Solid Matrix (%)				
Dibromofluoromethane	S01						
1,2-Dichloroethane-d4	S02	78 - 125					
Toluene-d8	S03	80 - 120					
4-Bromofluorobenzene	S04						

		S01	S02	S03	S04	Positive	Non Detect
Project Sample ID	Matrix	%R	%R	%R	%R	Results	(ND)
743-020116-1235	WG	-	69	-	-	J-	UJ
4184-020116-0001	WG	-	-	77	-	J-	UJ

Affected Analytes

1,2-Dichloroethane-d4

Carbon tetrachloride, 1,1-Dichloropropene, Benzene, Methyl tert-Amyl Ether, 1,2-Dichloroethane, Trichloroethene, 1,2-Dichloropropane, Dibromomethane, Bromodichloromethane, 2-Chloroethylvinylether, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone.

Toluene-d8

Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, 1,3-Dichloropropane, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, 1,1,1,2-Tetrachloroethane, m,p-Xylene, o-Xylene, Styrene, Bromoform

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Туре	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
LCS 240-216788/4	LCS	Vinyl chloride	52 - 121	122		None, all samples ND.
MS/MSD - 216788	MS	All VOCs	Various	None	None	No MS/MSD run due to
216788						instrument failure.

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 3/15/2016

Data Usability Summary Report (DUSR) Vandalia, Ohio - Quarterly Monitoring Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-60495-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

is to the following samples:						
Sample ID	Sample ID	Sample ID				
416D-020216-1300	784-020216-1125	3114-020216-0002				
417D-020216-1120	796-020216-1240	4184-020216-0001				
418D-020216-1535	810-020216-1510	4184-020216-0002				
732-020216-1405	3114-020216-0001	4184-020216-0003				

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- · Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- · Initial Calibration Procedures
- · Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	416D-020216-1300	2x	Dilution req'd by sample matrix	No further action
All VOCs	1x	417D-020216-1120	1.25x	Dilution req'd by sample matrix	No further action
All VOCs	1x	4184-020216-0001	1.25x	Dilution req'd by sample matrix	No further action

Action:

No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX15	02/01/16	1,4-Dioxane	-53.40	0.00	None, not target analyte	None.
	11:44					
A3UX15	02/05/16	Bromomethane	-32.10	0.08	All Project Samples	J/UJ
	11:01	Chloroethane	-40.70	0.13	All Project Samples	J/UJ
		1,4-Dioxane	-41.90	0.00	None, not target analyte	None.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
3114-020216-0002	Acetone	2.1 ug/L	732-020216-1405	U
Equipment Blank	2-Butanone (MEK)	1.4 ug/L	None, all samples ND.	
4184-020216-0003	Acetone	2.0 ug/L	732-020216-1405	U
Equipment Blank	2-Butanone (MEK)	1.0 ug/L	None, all samples ND.	
4184-020216-0002	Acetone	1.5 ug/L	732-020216-1405	U
Trip Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	417D-020216-1120	4184-020216-0001	%RPD	sample results with:
cis-1,2-Dichloroethene	21 ug/L	22 ug/L	5%	
Trichloroethene	0.37 ug/L	1.3 U ug/L	NA	None, Abs. Diff < RL
Vinyl chloride	23 ug/L	24 ug/L	4%	

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	784-020216-1125	3114-020216-0001	%RPD	sample results with:
All VOCs	ND	ND	NA	None, all analytes ND.

Action

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 3/15/2016

Data Usability Summary Report (DUSR) Vandalia, Ohio - Quarterly Monitoring Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-60533-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
18-020316-1440	742-020316-1555	4184-020316-0002
434D-020316-1305	814-020316-1200	4184-020316-0003
444D-020316-1410	3114-020316-0001	
453D-020316-1545	4184-020316-0001	

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- · Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
240-60533-2	18-020316-1440	WG	See Action #1 Below
240-60533-7	434D-020316-1305	WG	See Action #1 Below
240-60533-8	444D-020316-1410	WG	See Action #1 Below
VM567641_00013	RESTEK Reagent	STD	See Action #2 Below
VM567641S_00007	RESTEK Reagent	STD	See Action #2 Below
VM567642_00015	RESTEK Reagent	STD	See Action #2 Below
VM567642S_00005	RESTEK Reagent	STD	See Action #2 Below
VM567643_00020	RESTEK Reagent	STD	See Action #2 Below
VM569724_00003	RESTEK Reagent	STD	See Action #3 Below

Action #1

The pH of these samples was greater than 2 at arrival to the laboratory. As acid preservation is required to limit biodegradation and the samples were all analyzed after 7 days from collection, qualify detects "J-" and non-detects "R".

Action #2

This standard expired "February 2016". The lab listed the expiration date as 2/29/16, which is supported by the RESTEK website. As samples were analyzed 2/1/16 and 2/2/16, the reviewer concedes with the laboratory listed date and the RESTEK website for expiration of the end of the month rather than the beginning. No action required.

Action #3

This standard expired "January 31, 2016". This standard was used to prepare the ICAL run on 11/20/15. No action is required.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	444D-020316-1410	2x	Dilution due to foaming	No further action

Action:

No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary. Request Reanalysis - Contact lab to inquire on the reason for the higher reporting limit and whether the sample can be resampled within the maximum allowable holding time.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the acceptance criteria of 30% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
A3UX10	12/10/16	Bromodichloromethane	6.50	RRF < 0.3	All Project Samples	R Flag
	13:55	cis-1,3-Dichloropropene	13.10	RRF < 0.3	All Project Samples	R Flag

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX10	12/10/15	Bromodichloromethane	0.20	RRF < 0.3	None, qualified by ICAL	None.
	16:07					
A3UX10	02/12/16	Bromomethane	-35.50	0.08	Samples analyzed on 2/12	J/UJ
	10:20	Chloroethane	-37.20	0.10	Samples analyzed on 2/12	J/UJ
		Hexane	21.10	0.06	None, not trgt analyte	None.
		1,2,4-Trichlorobenzene	-35.20	0.52	Samples analyzed on 2/12	J/UJ
		Hexachlorobutadiene	-32.00	0.23	None, not trgt analyte	None.
		Naphthalene	-44.00	1.03	None, not trgt analyte	None.
		1,2,3-Trichlorobenzene	-38.90	0.49	None, not trgt analyte	None.
		1,2-Dichloropropane	-5.50	RRF < 0.2	Samples analyzed on 2/12	J/R
		Bromodichloromethane	0.50	RRF < 0.3	None, qualified by ICAL	None.
A3UX10	02/15/16	Bromomethane	-45.00	0.07	Samples analyzed on 2/16	J/UJ
	23:05	Chloroethane	-58.70	0.07	Samples analyzed on 2/16	J/UJ
		1,3-Dichlorobenzene	-22.80	1.12	Samples analyzed on 2/16	J/UJ
		1,4-Dichlorobenzene	-21.30	1.19	Samples analyzed on 2/16	J/UJ
		Hexachlorobutadiene	-30.60	0.23	None, not trgt analyte	None.
		Naphthalene	-33.60	1.23	None, not trgt analyte	None.
		1,2,3-Trichlorobenzene	-30.30	1.23	None, not trgt analyte	None.
		1,2-Dichloropropane	-6.70	RRF < 0.2	Samples analyzed on 2/16	J/R
		Bromodichloromethane	-5.90	RRF < 0.3	None, qualified by ICAL	None.
		cis-1,3-Dichloropropene	-6.10	RRF < 0.3	None, qualified by ICAL	None.
A3UX10	02/17/16	Bromomethane	-37.90	0.08	Samples analyzed on 2/17	J/UJ
	08:47	Chloroethane	-47.70	0.08	Samples analyzed on 2/17	J/UJ
		Naphthalene	-28.00	1.34	None, not trgt analyte	None.
		Bromodichloromethane	-3.30	RRF < 0.3	None, qualified by ICAL	None.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
3114-020316-0001	Acetone	1.3 ug/L	None, all samples ND.	None.
Equipment Blank	2-Butanone (MEK)	1.3 ug/L	None, all samples ND.	None.
4184-020316-0003	Acetone	1.3 ug/L	None, all samples ND.	None.
Equipment Blank	2-Butanone (MEK)	1.1 ug/L	None, all samples ND.	None.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID /			%R			
Project Sample MS	Type	Target Analyte(s)	Criteria	%R	%RPD	Affected Sample(s)
434D-020316-1305	MS	All VOCs	Various	Within	Within	None, all within limits.
LCS 240-217533/4	LCS	1,2,4-Trichlorobenzene	61 - 120	60		453D-020316-1545
217533						3114-020316-0001

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	814-020316-1200	4184-020316-0001	%RPD	sample results with:
All VOCs	ND	ND	NA	None, all analytes ND.

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/-0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 3/16/2016

Data Usability Summary Report (DUSR) Vandalia, Ohio - Quarterly Monitoring Analytical Laboratory: ALS Environmental - Holland, MI Sample Delivery Group # 240-60659-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID
435D-020416-1455	815-020516-1205
715-020416-1340	3114-020416-0001
787-020416-1150	3114-020416-0002
793-020416-1245	3114-020516-0001

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- · Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- · Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- · Internal Standard Recoveries
- Field Duplicate Sample Analysis
- · Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
1602762-01A	435D-020416-1455	W	See Action #1 Below
1602762-01A	435D-020416-1455	W	See Action #2 Below
1602762-02A	715-020416-1340	W	See Action #2 Below
1602762-03A	793-020416-1245	W	See Action #2 Below
1602762-04A	787-020416-1150	W	See Action #2 Below
1602762-05A	3114-020416-0001	W	See Action #2 Below
1602762-06A	3114-020416-0002	W	See Action #2 Below
1602762-07A	815-020516-1205	W	See Action #2 Below
1602762-08A	3114-020516-0001	W	See Action #2 Below

Action #1

This sample (and splits for MS/MSD) were sent to the laboratory unpreserved. They were analyzed on the 13th day following collection, exceeding the non-preserved holding time of 7 days. Qualify "J-/R".

Action #2

Acid preservation for these samples was verified on arrival to ALS and found to be greater than 2. As this indicates a lack of preservation and all samples were analyzed beyond 7 days from collection, all samples are qualified "J-/R". In addition, the ALS sample receipt notes headspace in unidentified vials. It is the reviewers opinion that the preservation qualification covers this issue as well.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
cis-1,2-Dichloroethene	1x	3114-020416-0001	5x	Dilution req'd by sample matrix	No further action
Trichloroethene	1x	3114-020416-0001	5x	Dilution req'd by sample matrix	No further action
cis-1,2-Dichloroethene	1x	787-020416-1150	5x	Dilution req'd by sample matrix	No further action
Trichloroethene	1x	787-020416-1150	5x	Dilution req'd by sample matrix	No further action

Action:

No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary.

Request Reanalysis - Contact lab to inquire on the reason for the higher reporting limit and whether the sample can be resampled within the maximum allowable holding time.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the acceptance criteria of 30% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
VMS5	02/17/16	Acetone	106.36	0.10	3114-020516-0001	Estimate detects.
	08:59	2-Butanone (MEK)	58.16	0.10	None, all samples ND.	None.
		4-Methyl-2-pentanone (MIBK)	29.10	0.30	None, all samples ND.	None.
		2-Hexanone	54.93	0.20	None, all samples ND.	None.
		1,2-Dibromoethane	24.79	0.20	None, all samples ND.	None.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
VMS5	02/16/16	1,2-Dibromoethane	-101.40	0.40	None, all samples ND.	None.
	06:32	Acetone	58.40	0.10	Qualified by ICL.	None.
		Styrene	-25.70	1.13	None, all samples ND.	None.
VMS5	02/17/16	Acetone	56.80	0.11	Qualified by ICL.	None.
	11:04	2-Hexanone	-41.30	0.21	None, all samples ND.	None.
VMS5	02/18/16	Bromomethane	-45.80	0.40	None, all samples ND.	None.
	08:33	Acetone	46.90	0.13	Qualified by ICL.	None.
		2-Hexanone	-64.70	0.25	None, all samples ND.	None.
		1,2-Dibromoethane	20.30	0.19	None, all samples ND.	None.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID /			%R			
Project Sample MS	Type	Target Analyte(s)	Criteria	%R	%RPD	Affected Sample(s)
LVCSW1-160217	LCS	1,2-Dibromoethane	80 - 150	200		None, all samples ND.
435D-020416-1455	MS	1,2-Dibromoethane	80 - 150	210		None, sample ND.
R181944	MS	2-Butanone (MEK)	55 - 150	154		None, sample ND.
	MS	Acetone	60 - 160	244		None, sample ND.
435D-020416-1455	MSD	1,2-Dibromoethane	80 - 150	211	0.5	None, sample ND.
R181944	MSD	Acetone	60 - 160	245	0.429	None, sample ND.
	MSD	Ethylbenzene	85 - 125	126	1.84	None, sample ND.
	MSD	Isopropylbenzene	80 - 127	129	2.19	None, sample ND.

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	787-020416-1150	3114-020416-0001	%RPD	sample results with:
trans-1,2-Dichloroethene	96 ug/L	99 ug/L	3%	
cis-1,2-Dichloroethene	88 ug/L	96 ug/L	9%	
Trichloroethene	100 ug/L	100 ug/L	0%	

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within \pm 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 4/1/2016

Data Usability Summary Report (DUSR) Vandalia, Ohio - Quarterly Monitoring Analytical Laboratory: ALS Environmental - Holland, MI Sample Delivery Group # 240-60664-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID
806-020416-1130	4184-020416-0001
807-020416-1300	4184-020416-0002
809-020416-1415	4184-020416-0003

Project Samples were analyzed according to the following analytical methods:

Parameter	Analytical Method	Holding Time Criteria
1. VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- · Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- · Initial Calibration Procedures
- · Continuing Calibration Procedures
- · Blank Sample Analysis
- System Monitoring Compound Recoveries
- · Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- · Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- · Data Qualifiers
- · Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
1602764-04A	4184-020416-0002	WG	See Action #1 Below
All Project Samples	All Project Samples	WG	See Action #2 Below

Action #1

Acid preservation for this sample was verified on arrival to ALS and found to be greater than 2. As this indicates a lack of preservation and the sample was analyzed beyond 7 days from collection, data is qualified "J-/R".

Action #2

ALS login states "Some of the vials have headspace". Upon contacting the lab, TestAmerica did not note any headspace, and ALS confirms all of the remaining vials post-analysis have headspace of >6mm. ALS assured the reviewer that had analysis been completed on a vial with headspace, the analyst would have made a note. Therefore, the reviewer recommends no qualification due to this statement.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
cis-1,2-Dichloroethene	1x	806-020416-1130	200x	Dilution req'd by sample matrix	No further action
trans-1,2-Dichloroethene	1x	806-020416-1130	200x	Dilution req'd by sample matrix	No further action
1,1-Dichloroethane	1x	806-020416-1130	200x	Dilution req'd by sample matrix	No further action

Action:

No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary. Request Reanalysis - Contact lab to inquire on the reason for the higher reporting limit and whether the sample can be resampled within the maximum allowable holding time.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the acceptance criteria of 30% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
VMS5	02/17/16	Acetone	106.36	0.10	All Project Samples	J/UJ
	08:59	2-Butanone (MEK)	58.16	0.10	All Project Samples	J/UJ
		4-Methyl-2-pentanone (MIBK)	29.10	0.30	All Project Samples	J/UJ
		2-Hexanone	54.93	0.20	All Project Samples	J/UJ
		1,2-Dibromoethane	24.79	0.20	All Project Samples	J/UJ

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
VMS5	02/16/16	1,2-Dibromoethane	-101.40	0.40	Qualified by ICL	See Action #1 Below
	06:32	Acetone	58.40	0.10	Qualified by ICL	See Action #1 Below
		Styrene	-25.70	1.13	None, wrong date.	None.
VMS5	02/17/16	Acetone	56.80	0.11	Qualified by ICL	See Action #1 Below
	11:04	2-Hexanone	-41.30	0.21	Qualified by ICL	See Action #1 Below
VMS5	02/18/16	Bromomethane	-45.80	0.40	Samples anylzed on 2/18	See Action #1 Below
	08:33	Acetone	46.90	0.13	Qualified by ICL	See Action #1 Below
		2-Hexanone	-64.70	0.25	Qualified by ICL	See Action #1 Below
		1,2-Dibromoethane	20.30	0.19	Qualified by ICL	See Action #1 Below

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
4184-020416-0001	Acetone	32.0 ug/L	None, all samples ND	None.
Trip Blank				
4184-020416-0003	Acetone	4.1 ug/L	None, all samples ND	None.
Equipment Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID /			%R			
Project Sample MS	Type	Target Analyte(s)	Criteria	%R	%RPD	Affected Sample(s)
LVLCSW1-160217	LCS	1,2-Dichloroethane	80 - 150	200		None, samples all ND.
435D-020416-1455	MS	1,2-Dibromoethane	80 - 150	210		435D-020416-1455
R181944	MS	2-Butanone (MEK)	55 - 150	154		435D-020416-1455
(Different SDG)	MS	Acetone	60 - 160	244		435D-020416-1455
435D-020416-1455	MSD	1,2-Dibromoethane	80 - 150	211	0.5	435D-020416-1455
R181944	MSD	Acetone	60 - 160	245	0.429	435D-020416-1455
(Different SDG)	MSD	Ethylbenzene	85 - 125	126	1.84	435D-020416-1455
	MSD	Isopropylbenzene	80 - 127	129	2.19	435D-020416-1455
LVCSW2-160218	LCS	1,2-Dibromoethane	80 - 150	213		None, samples all ND.
R181980a	LCS	Isopropylbenzene	80 - 127	130		None, samples all ND.
1602836-01A	MS	1,2-Dibromoethane	80 - 150	200		None, Not HA Sample
R181980a	MSD	1,2-Dibromoethane	80 - 150	207	3.48	

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	807-020416-1300	4184-020416-0002	%RPD	sample results with:
cis-1,2-Dichloroethene	1.1 ug/L	0.73 ug/L	NA	None, Abs. Diff < RL

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 4/1/2016

Data Usability Summary Report (DUSR) Vandalia Ohio - Non-Routine Event Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-62254-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-014-002)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID SW04-031616-1530 4226-031616-0001

Project Samples were analyzed according to the following analytical methods:

Parameter	Analytical Method	Holding Time Criteria
1. VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- · Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- · Initial Calibration Procedures
- · Continuing Calibration Procedures
- · Blank Sample Analysis
- · System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- · Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

Inst.	Data / Tima	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
		. , ,			r (,)	
A3UX15	02/22/16	Bromomethane	-36.80		All Project Samples	See Action #1 Below
ICV	13:33	Chloroethane	-31.40		All Project Samples	See Action #1 Below
		Acetone	-41.60		All Project Samples	See Action #1 Below
		1,4-Dioxane	-56.70		None, analyte not reported	None.
A3UX15	03/22/16	All VOCs	Within	Within	None, samples run on	None.
CCV	10:02				3/22 are not to be	
					validated.	
A3UX15	03/24/16	All VOCs	Within	Within	None, all within limits.	None.
CCV	09:30					

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
MB (222624)	Acetone	1.08 ug/L	All Samples in Batch	U
MB (223000)	Acetone	1.12 ug/L	All Samples in Batch	U
4226-031616-0001	Acetone	2.1 ug/L	Made ND by Method Blank	U
Trip Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

${\bf Laboratory\ Control\ Samples,\ Matrix\ Spike/Matrix\ Spike\ Duplicate\ Recoveries}$

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of $\pm 100\%$ and $\pm 50\%$ of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 4/8/2016

Attachment C Groundwater Migration Control System Monthly Discharge Reports

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-October 2015

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
10/1/2015	27.0	38915
10/2/2015	27.5	39600
10/3/2015	29.6	42605
10/4/2015	27.4	39434
10/5/2015	27.0	38941
10/6/2015	26.7	38460
10/7/2015	23.1	33265
10/8/2015	24.7	35497
10/9/2015	26.8	38658
10/10/2015	26.8	38603
10/11/2015	26.9	38693
10/12/2015	26.9	38730
10/13/2015	26.8	38581
10/14/2015	26.4	37981
10/15/2015	26.6	38254
10/16/2015	26.4	38047
10/17/2015	26.4	38008
10/18/2015	26.4	37953
10/19/2015	26.4	37960
10/20/2015	26.4	37979
10/21/2015	26.4	38002
10/22/2015	26.4	37950
10/23/2015	23.9	34379
10/24/2015	27.5	39539
10/25/2015	26.7	38460
10/26/2015	26.4	38078
10/27/2015	20.6	29714
10/28/2015	18.4	26537
10/29/2015	27.9	40206
10/30/2015	26.0	37427
10/31/2015	27.9	40194

TOTAL DISCHARGE (gal) = 1166649 AVERAGE DAILY DISCHARGE (gal/day)= 37634

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT- November 2015

AVERAGE INFLOW (GPM)

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
11/1/2015	11.7	16905
11/2/2015	17.5	25192
11/3/2015	17.3	24907
11/4/2015	17.2	24795
11/5/2015	23.4	33699
11/6/2015	12.9	18542
11/7/2015	15.4	22140
11/8/2015	14.9	21485
11/9/2015	14.7	21214
11/10/2015	4.7	6758
11/11/2015	-0.1	0
11/12/2015	0.3	0
11/13/2015	-0.1	0
11/14/2015	-0.1	0
11/15/2015	-0.1	0
11/16/2015	-0.1	0
11/17/2015	-0.1	0
11/18/2015	-0.1	0
11/19/2015	-0.1	0
11/20/2015	10.1	14475
11/21/2015	26.7	38497
11/22/2015	25.3	36364
11/23/2015	24.9	35785
11/24/2015	24.6	35458
11/25/2015	24.5	35315
11/26/2015	24.4	35171
11/27/2015	25.6	36919
11/28/2015	35.6	51220
11/29/2015	30.2	43547
11/30/2015	32.0	46016

TOTAL DISCHARGE (gal) = 624402 AVERAGE DAILY DISCHARGE (gal/day)= 20813

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-December 2015

AVERAGE INFLOW (GPM)

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
12/1/2015	31.5	45310
12/2/2015	31.3	45035
12/3/2015	31.1	44798
12/4/2015	31.0	44584
12/5/2015	30.9	44495
12/6/2015	30.9	44512
12/7/2015	30.9	44518
12/8/2015	27.8	40064
12/9/2015	28.4	40878
12/10/2015	30.2	43504
12/11/2015	30.2	43558
12/12/2015	30.3	43582
12/13/2015	30.3	43573
12/14/2015	30.3	43656
12/15/2015	30.1	43299
12/16/2015	30.4	43750
12/17/2015	30.4	43802
12/18/2015	30.4	43727
12/19/2015	30.3	43611
12/20/2015	30.2	43549
12/21/2015	28.2	40538
12/22/2015	29.7	42708
12/23/2015	29.4	42357
12/24/2015	28.8	41479
12/25/2015	28.6	41212
12/26/2015	28.5	41067
12/27/2015	27.8	40002
12/28/2015	27.3	39324
12/29/2015	28.4	40959
12/30/2015	28.2	40660
12/31/2015	28.1	40532

TOTAL DISCHARGE = 1324643 AVERAGE DAILY DISCHARGE (gal/day)= 42730

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-January 2016

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
1/1/2016	27.8	40063
1/2/2016	27.2	39239
1/3/2016	26.8	38611
1/4/2016	26.4	37974
1/5/2016	26.0	37415
1/6/2016	25.7	37016
1/7/2016	25.5	36674
1/8/2016	29.2	42057
1/9/2016	26.6	38239
1/10/2016	36.4	52428
1/11/2016	30.1	43390
1/12/2016	29.3	42255
1/13/2016	28.3	40704
1/14/2016	30.3	43692
1/15/2016	32.5	46750
1/16/2016	30.3	43675
1/17/2016	28.5	41106
1/18/2016	27.8	40070
1/19/2016	24.0	34589
1/20/2016	27.3	39245
1/21/2016	27.5	39569
1/22/2016	26.9	38720
1/23/2016	26.8	38615
1/24/2016	22.8	32801
1/25/2016	15.9	22837
1/26/2016	26.7	38456
1/27/2016	26.3	37842
1/28/2016	26.3	37809
1/29/2016	26.2	37705
1/30/2016	26.2	37663
1/31/2016	26.1	37652

TOTAL DISCHARGE (gal) = 1214859 AVERAGE DAILY DISCHARGE (gal/day)= 39189

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-February 2016

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
2/1/2016	26.1	37518
2/2/2016	27.9	40233
2/3/2016	20.0	28829
2/4/2016	28.1	40448
2/5/2016	26.7	38382
2/6/2016	26.9	38772
2/7/2016	26.4	37962
2/8/2016	27.0	38856
2/9/2016	27.1	39029
2/10/2016	25.7	36972
2/11/2016	26.4	37992
2/12/2016	26.1	37637
2/13/2016	25.9	37249
2/14/2016	25.8	37113
2/15/2016	26.6	38271
2/16/2016	26.9	38699
2/17/2016	26.0	37438
2/18/2016	25.6	36876
2/19/2016	25.2	36247
2/20/2016	25.5	36659
2/21/2016	25.3	36411
2/22/2016	25.2	36262
2/23/2016	25.1	36153
2/24/2016	26.5	38105
2/25/2016	39.9	57514
2/26/2016	32.3	46529
2/27/2016	27.7	39845
2/28/2016	26.6	38293
2/29/2016	27.2	39214

TOTAL DISCHARGE (gal) = 1119506 AVERAGE DAILY DISCHARGE (gal/day)= 38604

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-March 2016

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
3/1/2016	29.0	41733
3/2/2016	27.3	39250
3/3/2016	28.5	41043
3/4/2016	28.4	40967
3/5/2016	25.8	37188
3/6/2016	25.2	36285
3/7/2016	26.3	37887
3/8/2016	27.5	39589
3/9/2016	29.1	41954
3/10/2016	36.6	52776
3/11/2016	40.8	58791
3/12/2016	31.3	45124
3/13/2016	36.0	51882
3/14/2016	36.0	51864
3/15/2016	35.5	51094
3/16/2016	29.9	43086
3/17/2016	26.6	38267
3/18/2016	26.0	37491
3/19/2016	28.7	41389
3/20/2016	27.2	39152
3/21/2016	12.1	17389
3/22/2016	28.7	41328
3/23/2016	28.7	41289
3/24/2016	28.7	41257
3/25/2016	28.3	40718
3/26/2016	28.9	41614
3/27/2016	28.9	41619
3/28/2016	29.8	42871
3/29/2016	22.9	32943
3/30/2016	17.9	25748
3/31/2016	32.5	46835

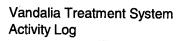
TOTAL DISCHARGE (gal) = 1280421 AVERAGE DAILY DISCHARGE (gal/day)= 41304 Attachment D Groundwater Migration Control System Activity Log



	Time	Time left	H&A	
Date	on site	site	personnel	Activities while on-site
8/26/15	13:15	16:15	MR	XO Bay Filters
8 28/15	1300	1530	PP	Change Tr. Wkly Dompetions
8/31/15	1140	1240	ELS	Change Bag Alters
9/2/15	1400	1600	ELS	Change BE, weekly inspection
9/2/15	2/30	2300	ELS	Alarm Response
9/4/15	1430	1530	WJR	Change BF
9/4/15	19:10	2000	WTR	Alarm response
9/8/15	97 80	0830	Els	Alarm response; Change Bug Filters
9/11/15	600	1860	MR	XOB.F. Weekly INSP
9/14/15	1550	1640	WJR	Change BF
116/15	1800	1900	MR	Clare BF
9/18/15	1230	1430	ELS	Change BF Weekly Inspection
	0930	1030	ELS	Change BF & Switch Marisperse
9/22/15	0930	1030	er	change BF
9/25/15	1040	1400	WIR/TV	Restarted flow meter for BR (tripped breaked); Restarted of pump (OV)
9/24/15	9:31	10:36	The	Change BF
10/2/15	1230	1430	RP	Willy, change BF
10/5/15	1000	1100	Els	Change BF
10AIS	1530	1530	RP	The state of the s
10815	1230	1630	RP	Mc Sampling, Wkly, Civality breaker fix,
018/15	1145	1245	ELS	Change RF
	14:30	15:30	MR	Chance B.F.
0/14/15		16:00	MR	Change B.F. Replace Sump Pump
10/16/5		1869W	MR	Weekly - XO Bog Filters
### 45C46##07#	15:00	17:00		1 0

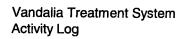


Date	Time on site	Time left site	H&A personnel	A salidation while on the
			 ' 	Activities while on-site
10/19/15		12:15	TMI	Change BF CheckOs
16/21/15		17:00	MR	Change B.F.
10/23/15		6:00	MRRI	Charle B.F. Brokaush weekly Inspection
10/26/15	12:00	13:00	MR	Xd Rong Filters
10/28/15	0730	1300	ELS	Marin Response; Change Bog Filters
10/30/15	1300	1500	RP	BF change Wkly
11/1/15	9 30	1130	Ess	Norm Besporter
11/245	0800	0835	Po	BF Chank
11/5/15	/330	1430	ELS	weekly Inspection
11/5/15	1430	1600	er	MC fampling
11/6/15	0930	1230	ELS	Alarm Response
111215	1030	1430	ELC/JWK	
11/16/15	BOO	1430	els!	System Reprise
143012	1000	0E dj	ELS/JWR	System Repairs / Pump change out (Carba pump); System Restort
11/24/15	1300	1400	GLS/RP	consigned & Chiny Maxisperce / Greace new pump
11/25/15	1000	1200	Gujep	Change BF & Wookly Inspection / Correct leak in system
17/29/15	1430	1580	EU/TMV	Change BF
12/4/15	1300	1500	Fis	Change BF Weekly Inspection on
12/7/15	1100	1400	RP	MC Sampling Anti-Total agent Eval: BF change
12/8/15	0930	1530	ep/ecs	System Backwash
12/9/15	1400	1630	WTR	Plains modifications
12/11/15	[[:œ	13:00	MR,	WOKL INSP
12/15/15		14:30	MR/R	B.F. change - System Alarm
12/16/15	14:00	15:00	MR	B.F. Chause
•				0



	Time	Time left	H&A	
Date	on site	site	personnel	Activities while on-site
12/18/15	9:30	11130	M.R.	Weekly Inspection
12/21/15	1100	1300	ELS	Harm Rosponce
12/24/15	1/100/000	1100	RP	WKly Impetion
12/28/15	1400	1530	ELS	Bay Alter Change
1/2/16	16:25	17:35	WIR	Weekly Inspertion
1/4/14	株 2:00	16:00	MR	BF Change - Indoor Air Songlin @MC & inside Plant
114/14	1100	1300	Eli	Monthly Sampling & Chang BF
1816	1200	1400	ELS	Change BF = Westing Inspection
111116	1100	1300	ELS	Ching BF
1/12/16	10:30	12:30	MR	Weekly Inspection
1/15)16	\$:00	15:15	MR	BF Change
1/18/16	14:00	15100	MR	BF Change
1/19/16	9:45	1600	MR/RP	Back Wash
1/2/1/1/2	1300	1430	PA	Wely Emperion
1/22/16	11:30	1430	MR	Change B. F. Recien Delivery of Maxisperse, Change Exc Wish:
1 25 16	0800	1100	EUS	Alarm Response, Maxisperse Change
1/27/16	1600	1760	MR	XO Bay Filers
	1600	1800	MK-RP	WELKY INSPECTION
	9:30	10:30	MR	System Shutdown - Alarm Response
	2:30	13:00	MR	"
21516	1200	1480	28	Willy, Bf Change
2/8/16	11:00	14:00	MU/WIR	Sample MC, Change BF Drum Purge HO
2/12/16	16:45	18:30	WJR	Weekly inspection, Change BF
2/15/16	10:50	11:30	WIR	Change AF

Solution



	Time	Time left	H&A	
Date	on site	site	personnel	Activities while on-site
2-17-14	13:00	14:00	MR	B.F. Change
2-19-16	10:00	12:00	MRXR	IP. Weekly & BF change
2-19-16	13:00	14:00	MR&R.P	Eye Wash Station replace solution
2/24/16	1100	1336	RP	Shut down ver
2/26/16	15:00	1700	MR	Weekly INSP - Change BF - Change Bolte
2/29/16	16:45	14:55	WIR	Change RF
3/4/16	1030	1330	RP	Mc Sampling, BF change
3/7/14	20:00	21:00	MR	Charge B.F> on way to Fost Wayne
3/9/16	1500	17W	Ro	WKLY.
Blis/le	1500	1400	MR	BF Change
3/14/16	1015	1215	ELS	BE Change, Thek capture well:
3/17/16	1400	1500	RP/MR	BF Change - Change Out SS Pump
3/17/16	0800	1500	RP	SS pump change - out
8/18/16	1230	1500	BAJA	
3/21/16	0700	2130	ELSITHV	ACIO WASH
3/24/16	1430	1530	MR	Change Out Bag Filters
3/25/16	1000	1400	MR/GUS	Hose Maintenance; Tanker Truck PH; Weakly Inspection
3/28/16	1130	1230	MR	Chance Bas Filters
3/30/16	8:30	19:30	MR	Change Bag Filters & Alarm Response & Weekly Insp
3130/16	11:30	12:10	MR/TR	Start up S.S. pump
3131/16	11:00	5:00	MR	Recieve Shipment of Maxisperse (1 Drum) & Peplace Seent Drum
·				
			ليسسا	·

Attachment E Groundwater Migration Control System Inspection Checklists

			_		INSPECTION DATE: 10/2/15 INSPECTION BY:
	MINIMUM I	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		<u> </u>	\sim	
EYEWASH STATION	X I		Ý	\sim	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		7	\sim	
EMERGENCY LIGHTING	х		Ý	\sim	2
SITE ISSUES	x		7	\sim	
SITE SECURITY			, , , , , , , , , , , , , , , , , , ,		
FENCING		x			
GATES		X			
LOCKS		х			
SIGNS		х	154		2
SITE		х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		x		Ų.	
BUILDING		х			:=
RECOVERY WELL		х			
ACCESS ROAD		х			
WASTE		,		,	•
CARBON	х		TY		
SOLID	х		1		

							INSPECTION DATE: 10/2/15 INSPECTION BY:
					INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D	
GROUNDWATER SYSTEM	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
	l		 	 	1	1	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X	1	 		1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
LOG SYSTEM OPERATING PARAMETERS	×	_		 	1	T N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	×		+	 	l l	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
TEST LEVEL CONTROLS ETC.	IX		+	 	$+J_{\cdot}$	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	×	-	+	 	 J	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	×		-	<u> </u>	1	\sim	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x	1	-		- 7	/ /	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS		<u> </u>	-	x	-		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x	 	-	ļ	1	- /	
VISUALLY INSPECT ELECTRICAL SYSTEM	X	<u> </u>	-	n	 	//	
VERIFY PUMP OPERATION	х	ļ		-	<u> </u>	~	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA	ļ	х	ļ		7_	~	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	ļ	х		<u> </u>			
AIR STRIPPER - CHECK SOLIDS ACCUMULATION		<u> </u>	<u> </u>	х		8	
CHECK BAG FILTER PRESSURES	×				<u> </u>	\sim	
CHECK CARBON FILTER PRESSURES	×		<u> </u>	본	Y	~	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х		1		4	~	
AMP TRANSFER PUMP MOTORS		<u> </u>		x			
TRANSFER PUMPS - PERFORM P.M. SERVICE		10		x		Ш	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х		Ч	
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				
			1				

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1340	35.3	970.44	935 00
MW-414D	1330	36.43	971.91	935.46
MW-413D	1320	35 70	970.13	935: 43
MW-416D	1340	30 48	965.84	935-86

¹ Frequency that may be required is based on

			_		INSPECTION DATE: $/0/8//5$ INSPECTION BY:
	мінімим	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY EVERY		TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	×
SITE SAFETY					
FIRST AID KIT	х		У	\sim	
EYEWASH STATION	х		Y	\sim	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		7	\mathcal{N}_{i}	
EMERGENCY LIGHTING	х		Ý	N	
SITE ISSUES	х		4	\sim	
SITE SECURITY			- I	580	
FENCING		х			
GATES		Х			
LOCKS		х			
SIGNS		х		Q.	
SITE		х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		Х			
BUILDING		х			
RECOVERY WELL		х			
ACCESS ROAD		х			
WASTE					
CARBON	х		Y	N	
SOLID	х		Y	$\overline{}$	

							INSPECTION BY:
				· · · · · · · · · · · · · · · · · · ·	INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D	, a
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				Y	\sim	
LOG SYSTEM OPERATING PARAMETERS	х				7	\sim	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				4	\sim	
TEST LEVEL CONTROLS ETC.	x				4	~	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				4	\sim	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Y	~,	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				7	N	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				×	4		Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	<i>N</i> ,	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				4	N_{i}	
VERIFY PUMP OPERATION	х				4	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION		<u> </u>		x			
CHECK BAG FILTER PRESSURES	x				Y	N_{i}	
CHECK CARBON FILTER PRESSURES	×				4	\sim ,	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				4	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS		ļ	x				
		 	-				

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR		
MW-301D	1535	35.36	970.44	935.08		
MW-414D	1525	36-51	971.91	935.40		
MW-413D	1520	34.74	970.13	935.39		
MW-416D	1515	30.46	965.84	935.38		

¹ Frequency that may be required is based on

		-			INSPECTION DATE: 10/16/15 INSPECTION BY: Mike Dasmusser
					INSPECTION BY:
	TMINIMUM I	REQUENCY	INSPECTED/	CORRECTIVE	1 100 1005 1005 1005
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	9
SITE SAFETY					•
FIRST AID KIT	х		Y	N	
EYEWASH STATION	x		4	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Y	N	
EMERGENCY LIGHTING	x		Y	N	
SITE ISSUES	х		7	N	
SITE SECURITY		_			
FENCING		х	7	N	
GATES		х	4	N	
LOCKS		х	Ÿ	N	
SIGNS		X	Ý	L W	
SITE		х	7	L 1/2	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	Y	N	
BUILDING		х	Y	N	
RECOVERY WELL		х	У	N	
ACCESS ROAD		х	Ý	N N	
WASTE	11				
CARBON	х		7	IV.	
SOLID	х		4	1 10	

							INSPECTION DATE: 10.16.15	\neg
							INSPECTION DATE: 10.16.15 INSPECTION BY: Michael Res	myssc
					INSPECTED/ CORRECTIVE	COMMENTS	23	
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D		
	1			OR				
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)		
GROUNDWATER SYSTEM	<u> </u>	-	ļ					<u>-</u> 41
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	×		ļ		Y	N (Leak @ BRIN Sample	Varive
LOG SYSTEM OPERATING PARAMETERS	х		ļ		Y	N		
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	×		ļ		7	N		
TEST LEVEL CONTROLS ETC.	×	ļ			4	N		
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	×				7	N		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х			ļ	Υ	N		
INSPECT BUILDING AND FOUNDATION INTEGRITY	х	ļ		<u> </u>	X	N		
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				×			Test Trip Set Point and Clean Screens and Louvers	
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х				4	N/		
VISUALLY INSPECT ELECTRICAL SYSTEM	x				Ý	12		
VERIFY PUMP OPERATION	x				Ý	N		
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x						
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x				A)		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				×				
CHECK BAG FILTER PRESSURES	x				×	N		
CHECK CARBON FILTER PRESSURES	х				¥	N	N .	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				4	N	7	
AMP TRANSFER PUMP MOTORS				×	1 '	1		
TRANSFER PUMPS - PERFORM P.M. SERVICE				×				\neg
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				×				\neg
CHECK & CALIBRATE INSTRUMENTATION				x		l l		_
MANUALLY OPERATE & CHECK VALVES				x				\dashv
MANUALLY TEST SAFETY INTERLOCKS		Ť	×					\dashv
		1	<u> </u>	T				\dashv
				1				\dashv
			'					

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1(:55	35.20	970.44	935.24
MW-414D	11:50	36.40	971.91	935.51
MW-413D	12:00	34.70	970.13	935.43
MW-416D	11:35	30.42	965.84	935.42

¹ Frequency that may be required is based on

(3)					INSPECTION DATE: 10/23/15 INSPECTION BY: Michael Resumer
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY			<u> </u>		
FIRST AID KIT	х		Y	N	
EYEWASH STATION	х		1 7	N.	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х	53	7	//	
EMERGENCY LIGHTING	Х		X	N	
SITE ISSUES	х		У	N	
SITE SECURITY					
FENCING		х	4	N	
GATES		Х	4	2	"
LOCKS		х	Ý	A)	
SIGNS		х	4	Ň	
SITE		Х	4	N	
SITE GROUNDS				PE CONTRACTOR	8
DRAINAGE DITCHES/SWALES		х	У	N	В
BUILDING		Х	Ý	N_	8
RECOVERY WELL		х	4	A	
ACCESS ROAD		х	Y	ĬŇ	
WASTE			7		2
CARBON	х		Υ	N	
SOLID	х		4	N	

	-	a.					INSPECTION DATE: 10/23/15 INSPECTION BY: Michael Passus	~
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS	
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)		
GROUNDWATER SYSTEM	ļ	<u>.</u>			M.			
ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х	<u> </u>			Y	Y	Leaky Value @ BRIN	sample point
OG SYSTEM OPERATING PARAMETERS	×				Ý	N	1 0	4 1
SE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				Y	N		
EST LEVEL CONTROLS ETC.	x				У	N		
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Y	N		
NSPECT CONTAINMENT SUMP/FLOOR SEAL.	x				У	N		
NSPECT BUILDING AND FOUNDATION INTEGRITY	х				ý	N		
SPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS			=	х	T		Test Trip Set Point and Clean Screens and Louvers	
NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x			1	4	N		
ASUALLY INSPECT ELECTRICAL SYSTEM	x				Y	N		
ERIFY PUMP OPERATION	×				4	N		
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			1			
AMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x						
IR STRIPPER - CHECK SOLIDS ACCUMULATION				x				
CHECK BAG FILTER PRESSURES	×				V	N		
CHECK CARBON FILTER PRESSURES	×				Ý	N.		
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x	80			Ý	N		
MP TRANSFER PUMP MOTORS				x		11		
RANSFER PUMPS - PERFORM P.M. SERVICE				х		N N		
IR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x				
CHECK & CALIBRATE INSTRUMENTATION				x				
MANUALLY OPERATE & CHECK VALVES				x		TI		
MANUALLY TEST SAFETY INTERLOCKS	D		x					

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D		35.39	970.44	935,05
MW-414D		36.60	971.91	935.31
MW-413D		34.98	970.13	935.15
MW-416D		30.77	965.84	935,07

¹ Frequency that may be required is based on

ā	e e				INSPECTION DATE: 10/30/15 INSPECTION BY: PP
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY			-		
FIRST AID KIT	x		У	\mathcal{N}_{i}	
EYEWASH STATION	x				
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		У	\sim	
EMERGENCY LIGHTING	х		L Y	\sim	
SITE ISSUES	х		4	~	
SITE SECURITY					
FENCING	3,	х		N .	
GATES		х			
LOCKS		х			
SIGNS		х			
SITE		х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		x			
BUILDING		х			
RECOVERY WELL		х		4,	
ACCESS ROAD		X			
WASTE					
CARBON	X		7	\sim	
SOLID	х		Y	\sim	

							INSPECTION DATE: 10/30/15 INSPECTION BY: 26
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM	<u> </u>		-	-		 	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x	ļ	-	<u> </u>	<u> </u>	- ~	
LOG SYSTEM OPERATING PARAMETERS	×			ļ	7	~	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	×	<u> </u>			17	~	
TEST LEVEL CONTROLS ETC.	×	ļ			<u> </u>	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	×				L Y	\mathcal{N}	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				7	\sim	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				4	\sim	
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х				Y	\sim	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				7	\sim ,	
VERIFY PUMP OPERATION	x		T^{-}]	·_/	\sim	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x	Ī		7		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х				1	300
NR STRIPPER - CHECK SOLIDS ACCUMULATION				x		, il	
CHECK BAG FILTER PRESSURES	x				V	N	
CHECK CARBON FILTER PRESSURES	x				Ý	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				4	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE		77		×	,		
NR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION				х		Ш.	
MANUALLY OPERATE & CHECK VALVES			19	x			
MANUALLY TEST SAFETY INTERLOCKS			x				
		 	+	-			

Notes:

WELL, ID	ТІМЕ	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D		35-41	970.44	735.03
MW-414D		36.65	971.91	935.20
MW-413D		B4-95	970.13	935-18
MW-416D		Bo.78	965.84	935.00

¹ Frequency that may be required is based on

INSPECTION DATE: 11-5-15
INSPECTION BY: ほん

	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	·
SITE SAFETY					
FIRST AID KIT	х		Y	2	
EYEWASH STATION	х		Y	~	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		7	N	
EMERGENCY LIGHTING	х		Y	~	
SITE ISSUES	х		Ý	7	
SITE SECURITY					
FENCING		X			
GATES		Х		(1)	
LOCKS		х			
SIGNS		х			
SITE		х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х			
BUILDING		х			
RECOVERY WELL		х		18	
ACCESS ROAD		х			X/
WASTE					El .
CARBON	Х		Y	N	
SOLID	х		7	N	

INSPECTION DATE: (1-5-)5
INSPECTION BY: ELS

	<u> </u>			, 	INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D	7.
		İ				102	
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM	-	ļ		ļ			
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х			ļ	Y	N	
LOG SYSTEM OPERATING PARAMETERS	х				Α	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	×				Y	N W	
TEST LEVEL CONTROLS ETC.	×				7	N	- E
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Y	7	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				Ý	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x		11	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	p.L	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Ý	~	
VERIFY PUMP OPERATION	x				7	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x				И	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		×				Ч	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	х				ч	~	
CHECK CARBON FILTER PRESSURES	х				Ý	7	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Ÿ	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x		Ц	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION				х		_ 1	
MANUALLY OPERATE & CHECK VALVES				х			
						1	

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1400	32.42	970.44	938.02
MW-414D	1354	33.75	971.91	938.21
MW-413D	1351	31.99	970.13	938.14
MW-416D	1348	27.74	965.84	938.10

¹ Frequency that may be required is based on

	INSPECTION DATE: 11-25-15
	INSPECTION BY: ELS
- 4	

				36 	333
	МІМІМИМ	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Y	N	
EYEWASH STATION	х		Υ	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Y	N	
EMERGENCY LIGHTING	Х		Y	~	
SITE ISSUES	х		У	~	
SITE SECURITY					
FENCING		х	Y	2	
GATES		х	Y	2	-
LOCKS		х	Y	2	
SIGNS		х	Y	N	2
SITE		х	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	Y	N	
BUILDING		х	. 4	N	
RECOVERY WELL		х	Y	2	
ACCESS ROAD		х	4	N	
WASTE					
CARBON	х		7	N	
SOLID	х		4	N	

INSPECTION DATE: 1-25-15 INSPECTION BY: ECC									
					INSPECTED	CORRECTIVE	COMMENTS		
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D			
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)			
GROUNDWATER SYSTEM					L.				
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				Y	N			
LOG SYSTEM OPERATING PARAMETERS	x			¥)	Ÿ	2			
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				y	~			
TEST LEVEL CONTROLS ETC.	x				Ÿ	N			
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Ý	N			
NSPECT CONTAINMENT SUMP/FLOOR SEAL	×	A."			Y	N			
NSPECT BUILDING AND FOUNDATION INTEGRITY	x				Ý	N			
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS	- 00			x		`- T	Test Trip Set Point and Clean Screens and Louvers		
NSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	u x				Y	N			
VISUALLY INSPECT ELECTRICAL SYSTEM	×				Ý	~			
ERIFY PUMP OPERATION	×		I		Ý	N	2		
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			ÿ	N			
AMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			Y	N			
IR STRIPPER - CHECK SOLIDS ACCUMULATION				x					
CHECK BAG FILTER PRESSURES	x				Υ	N			
CHECK CARBON FILTER PRESSURES	х				Y	~			
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				Y	N			
AMP TRANSFER PUMP MOTORS				х		1			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x					
IR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x					
CHECK & CALIBRATE INSTRUMENTATION				x					
MANUALLY OPERATE & CHECK VALVES				x					
MANUALLY TEST SAFETY INTERLOCKS			x			41	N N		

Notes:

manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	10/27	33.04	970.44	937.40
MW-414D	10:24	34.44	971.91	937.47
MW-413D	10:20	32.67	970.13	937.46
MW-416D	F0:01	28.39	965.84	937.45

* WATER LEVEL! COLLECTED 11/34/15 *

¹ Frequency that may be required is based on

INSPECTION DATE: 12-4-15 INSPECTION BY: ELS MINIMUM FREQUENCY INSPECTED/ CORRECTIVE EVERY EVERY TESTED MEASURES REQ'D COMMENTS WEEK MONTH (YES or NO) (YES or NO) SITE SAFETY FIRST AID KIT N **EYEWASH STATION** N FIRE EXTINGUISHERS\SMOKE DETECTORS N EMERGENCY LIGHTING N SITE ISSUES SITE SECURITY **FENCING** GATES LOCKS SIGNS SITE **SITE GROUNDS** DRAINAGE DITCHES/SWALES BUILDING RECOVERY WELL ACCESS ROAD **WASTE** CARBON **SOLID**



INSPECTION DATE: 12-4-15
INSPECTION BY: 6LS

			,		INSPECTED/	CORRECTIVE MEASURES REQ'D	COMMENTS
	EVERY	EVERY	EVERY 3	ERY 3 MIN. 6 MO.			
			1	OR			
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YE\$ or NO)	
GROUNDWATER SYSTEM		<u> </u>	_		-		
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x		-		¥	N	
LOG SYSTEM OPERATING PARAMETERS	×			<u> </u>	Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x	1	1	<u> </u>	Y	N	
TEST LEVEL CONTROLS ETC.	x				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Ý	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	×	1			Ý	~	
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x		ll l	Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				У	~	
VISUALLY INSPECT ELECTRICAL SYSTEM	x		2		'	N	
VERIFY PUMP OPERATION	×				ý	W.	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x		i ii	
CHECK BAG FILTER PRESSURES	x		1		Y	N	
CHECK CARBON FILTER PRESSURES	×			201	Ý	N	
NR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	×				y	N	
AMP TRANSFER PUMP MOTORS				×	1		
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			E.
CHECK & CALIBRATE INSTRUMENTATION				x	-		
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS		1	×	i			
The same of the same same same		<u> </u>	Ť -	†			

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1442	33.79	970.44	936.65
MW-414D	1436	35.12	971.91	936.79
MW-413D	1430	33.41	970.13	936.72
MW-416D	1424	29.16	965.84	934.68

¹ Frequency that may be required is based on

61					INSPECTION DATE: 12/11/15 INSPECTION BY: Milce Rasmosse
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY				p)	
FIRST AID KIT	х		Y	N	
EYEWASH STATION	х	•	Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		7	N	
EMERGENCY LIGHTING	х		Y	N	
SITE ISSUES	х		Y	N	
SITE SECURITY					9
FENCING		х	4	N	
GATES		Х	Y	N	
LOCKS		х	Y	N	
SIGNS		Х	4	N	
SITE		х	4	N	
SITE GROUNDS			-		
DRAINAGE DITCHES/SWALES		х	4	N	
BUILDING		х	У	N	
RECOVERY WELL		х	Y	N	
ACCESS ROAD		х	Y	Ŋ	
WASTE				Yr.	
CARBON	х		Y	N	
SOLID	х		Y	N	

%; *Xig							INSPECTION BY: M. Rasmusser
le.	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	монтн	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM					Y	N	
JERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	×				Y	N	
LOG SYSTEM OPERATING PARAMETERS	x				7	N	
JSE PLC TO CHECK SYSTEM OPERATING CONDITIONS	×				Ý	N	
TEST LEVEL CONTROLS ETC.	x				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x		11		4	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Ý	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	×				Ý	N	
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				×	Y	N.	Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	ıx				4	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				Y	N	
ERIFY PUMP OPERATION	×	1			Ÿ	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			N	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			N	N S ME	
IR STRIPPER - CHECK SOLIDS ACCUMULATION				x	N	N	
CHECK BAG FILTER PRESSURES	x				Y	N	
CHECK CARBON FILTER PRESSURES	x				Y	Y	
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	×			2	19,	でる 総	
AMP TRANSFER PUMP MOTORS				x	N	W	
TRANSFER PUMPS - PERFORM P.M. SERVICE				х	N	N	
IR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x	N	0/	
CHECK & CALIBRATE INSTRUMENTATION				x	N	N	
MANUALLY OPERATE & CHECK VALVES				x	N	N	
		1	x		N		

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	IFIS	33.37	970.44	937.07
MW-414D	11:25	34.60	971.91	937.31
MW-413D	11:40	32.40	970.13	937.28
MW-416D	12:00	28.66	965.84	M38 M8 937.

¹ Frequency that may be required is based on

					INSPECTION DATE: 12/18/15 INSPECTION BY: Mike Pasmuse
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	монтн	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		У	K	
EYEWASH STATION	х		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х		Y	N	
EMERGENCY LIGHTING	х		Y	N	
SITE ISSUES	х		7	N	
SITE SECURITY					. M
FENCING	1881 0	х	Y	K	
GATES		х	Υ	N	v
LOCKS		Х	Y	Ŋ	
SIGNS	34	х	\ \ \ \	N	
SITE		х	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	H	N	
BUILDING		х	N	N	
RECOVERY WELL		х	N	N	
ACCESS ROAD		Х	N	N	
WASTE					
CARBON	х		У	N	
SOLID	х		У	N	9

INSPECTION DATE: 12/18/15
INSPECTION BY: Mike Rasmy sur

	EVERY	EVERY	EVERY 3	Т	INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	INVERV C				
	1	1	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
	1		1	OR			
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM		-					
ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	×	-		ļ	7	K	
OG SYSTEM OPERATING PARAMETERS	x		ļ		Y	7	
SE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x	<u> </u>	<u> </u>		\$	N	
EST LEVEL CONTROLS ETC.	x				8	N	
SE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				У	N	
NSPECT CONTAINMENT SUMP/FLOOR SEAL	×				ý	N	
SPECT BUILDING AND FOUNDATION INTEGRITY	×				7	N	
SPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
SPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	≡м х				4	N	
ISUALLY INSPECT ELECTRICAL SYSTEM	х	L.			7	N	
ERIFY PUMP OPERATION	x				y	N	
/ELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			K	N	
AMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			N	N	
R STRIPPER - CHECK SOLIDS ACCUMULATION				x	N	N	
HECK BAG FILTER PRESSURES	×				V	N	
HECK CARBON FILTER PRESSURES	×				V	N	
R STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	×		1		Ý	N	
MP TRANSFER PUMP MOTORS		1	1	x	MW	N	
RANSFER PUMPS - PERFORM P.M. SERVICE		1	1 -	x	N	N	
R STRIPPER - MEASURE AIR FLOW, FULL INSPECTION			1	x	2	N	
HECK & CALIBRATE INSTRUMENTATION		İ -		×	N	N	
ANUALLY OPERATE & CHECK VALVES		1 -	7.1	ĺ,	12	N	
ANUALLY TEST SAFETY INTERLOCKS		1		Î -	N	N	

Notes:

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D		33.73	970.44	936.71
MW-414D		35.03	971.91	936.88
MW-413D		3335	970.13	936.78
MW-416D		29.09	965.84	936.75

¹ Frequency that may be required is based on

		_			INSPECTION DATE: 12 24/15 INSPECTION BY: RP
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
-	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
.a2 21	WEEK	MONTH	(YES or NO)	(YES or NO)	r ·
SITE SAFETY					•
FIRST AID KIT	х				
EYEWASH STATION	х		1	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х			N	
EMERGENCY LIGHTING	х			N	
SITE ISSUES	х	=		N	
SITE SECURITY			2		
FENCING		х	61		
GATES		Х		4	
LOCKS		Х			
SIGNS		х			
SITE		х			8
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		x			
BUILDING		x			
RECOVERY WELL		х			
ACCESS ROAD		х		4	
WASTE					v
CARBON	х		V	\sim	
SOLID	х		V	\sim	

EVER GROUNDWATER SYSTEM ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS X OG SYSTEM OPERATING PARAMETERS X ISE PLC TO CHECK SYSTEM OPERATING CONDITIONS X EST LEVEL CONTROLS ETC. X USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED X NSPECT CONTAINMENT SUMP/FLOOR SEAL X NSPECT BUILDING AND FOUNDATION INTEGRITY X ISSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X VISUALLY INSPECT ELECTRICAL SYSTEM X ERIFY PUMP OPERATION X WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES		EVERY	EVERY 3	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS Test Trip Set Point and Clean Screens and Louvers
GROUNDWATER SYSTEM ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS X LOG SYSTEM OPERATING PARAMETERS X SEE PLC TO CHECK SYSTEM OPERATING CONDITIONS X EST LEVEL CONTROLS ETC. X JUSE PLC TO VERIFY DIAL OUT STATUS IS ENABLED X INSPECT CONTAINMENT SUMP/FLOOR SEAL X INSPECT BUILDING AND FOUNDATION INTEGRITY X INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS INSPECTIVERIFY HEATING AND VENTILATING SYSTEM & EMERGENCY SYSTEM X VISUALLY INSPECT ELECTRICAL SYSTEM X ERIFY PUMP OPERATION X WELL LEVELS - MANUALLY CHECK UWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X		MONTH	MONTHS			<i>N N N N N N N N N N</i>	
ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS X JOB SYSTEM OPERATING PARAMETERS X SEPLC TO CHECK SYSTEM OPERATING CONDITIONS X EST LEVEL CONTROLS ETC. X JUSE PLC TO VERIFY DIAL OUT STATUS IS ENABLED X INSPECT CONTAINMENT SUMP/FLOOR SEAL X INSPECT SUILDING AND FOUNDATION INTEGRITY X SEPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X JUSUALLY INSPECT ELECTRICAL SYSTEM X VELL LEVELS - MANUALLY CHECK UWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				x	7 7 7 7 7 7 7	\(\times \)	
ASSECTION OPERATING PARAMETERS X SEPILOTO CHECK SYSTEM OPERATING CONDITIONS X SET LEVEL CONTROLS ETC. X JUSE PLC TO VERIFY DIAL OUT STATUS IS ENABLED X ANSPECT CONTAINMENT SUMP/FLOOR SEAL X INSPECT BUILDING AND FOUNDATION INTEGRITY X ASSECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X JUSUALLY INSPECT ELECTRICAL SYSTEM X VEILL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) JIR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				x	7 7 7 7 7 7 7	\(\times \)	Test Trip Set Point and Clean Screens and Louvers
SE PLC TO CHECK SYSTEM OPERATING CONDITIONS X EST LEVEL CONTROLS ETC. X ISE PLC TO VERIFY DIAL OUT STATUS IS ENABLED X NSPECT CONTAINMENT SUMPIFLOOR SEAL X NSPECT BUILDING AND FOUNDATION INTEGRITY X ISPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X ISUALLY INSPECT ELECTRICAL SYSTEM X VELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				x	y y y y	~	Test Trip Set Point and Clean Screens and Louvers
EST LEVEL CONTROLS ETC. X JSE PLC TO VERIFY DIAL OUT STATUS IS ENABLED X NSPECT CONTAINMENT SUMP/FLOOR SEAL X NSPECT BUILDING AND FOUNDATION INTEGRITY X ISPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X ISUALLY INSPECT ELECTRICAL SYSTEM X VELL LEVELS - MANUALLY CHECK UWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				x	, , , , , , , , , , , , , , , , , , ,	~	Test Trip Set Point and Clean Screens and Louvers
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED X NSPECT CONTAINMENT SUMP/FLOOR SEAL X NSPECT BUILDING AND FOUNDATION INTEGRITY X ASPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X VISUALLY INSPECT ELECTRICAL SYSTEM X VEIL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				x	y y y	~ ~ ~ ~	Test Trip Set Point and Clean Screens and Louvers
NSPECT CONTAINMENT SUMP/FLOOR SEAL X NSPECT BUILDING AND FOUNDATION INTEGRITY X NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X ISUALLY INSPECT ELECTRICAL SYSTEM X ERIFY PUMP OPERATION X NELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				х	ý ý	<i>N N N</i>	Test Trip Set Point and Clean Screens and Louvers
NSPECT BUILDING AND FOUNDATION INTEGRITY X SPECTIVERIPY HEATING AND VENTILATING SYSTEM OPERATIONS NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X ZISUALLY INSPECT ELECTRICAL SYSTEM X ERIFY PUMP OPERATION X WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				х	y y	~	Test Trip Set Point and Clean Screens and Louvers
ASPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X VISUALLY INSPECT ELECTRICAL SYSTEM X ERIFY PUMP OPERATION X VELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES				x	4	~	Test Trip Set Point and Clean Screens and Louvers
NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM X XISUALLY INSPECT ELECTRICAL SYSTEM X X ERIFY PUMP OPERATION X WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X X CHECK CARBON FILTER PRESSURES			-	x	γ		Test Trip Set Point and Clean Screens and Louvers
X ERIFY PUMP OPERATION X WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES	_				Y		
ERIFY PUMP OPERATION X WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES							
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES							
AMPLING (SEE TABLE IN NPDES ATTACHMENTS) IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES					4	N	
IR STRIPPER - CHECK SOLIDS ACCUMULATION CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES		x			/		
CHECK BAG FILTER PRESSURES X CHECK CARBON FILTER PRESSURES X		х					
CHECK CARBON FILTER PRESSURES X				x			
					У	\sim	
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP					Ý	~	
					4	N	
MP TRANSFER PUMP MOTORS				x	/	,	
RANSFER PUMPS - PERFORM P.M. SERVICE				х			
IR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				x	,		
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			x				

Notes:

manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D			970.44	
MW-414D			971.91	
MW-413D			970.13	
MW-416D			965.84	

@ Ws not Recorded. MW.301) Submeyed elve to secent sain event.

¹ Frequency that may be required is based on

is a				-	INSPECTION DATE: 1/2/16 INSPECTION BY: WJR
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY	·				
FIRST AID KIT	Х		У	N	
EYEWASH STATION	Х		У	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х		y	N	
EMERGENCY LIGHTING	x		Ý	N	
SITE ISSUES	Х		У	N	
SITE SECURITY					
FENCING		х			
GATES		х			
LOCKS		х		,	
SIGNS		х			
SITE		х	1		
SITE GROUNDS				•	
DRAINAGE DITCHES/SWALES		х			
BUILDING		Х			
RECOVERY WELL		Х			
ACCESS ROAD	L	Х			
WASTE					
CARBON	x		Y	N	
SOLID	х			N	

							INSPECTION DATE: 1/2/16 INSPECTION BY: WTR
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM					Y	N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х].		У	N	
LOG SYSTEM OPERATING PARAMETERS	x				ý	NI.	
JSE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				ý	N	
TEST LEVEL CONTROLS ETC.	x				Ý	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				ý	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				Y	N	
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYST	ЕМХ				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Ý	N	
VERIFY PUMP OPERATION	x				У	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	х				Y	N	
CHECK CARBON FILTER PRESSURES	х				У	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				У	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			x		I		

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	16:57	27.79	970.44	942.65
MW-414D	16:44	29.67	971.91	942.84
MW-413D	16:28	2.7.36	970.13	942.77
MW-416D	16:35	23.07	965.84	942.77

				ù.	INSPECTION DATE: リー8ー(ゆ INSPECTION BY: とい
	МІМІМИМ F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					-
FIRST AID KIT	Х		7	N	
EYEWASH STATION	Х		7	7	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		У	~	
EMERGENCY LIGHTING	Х		7	N	
SITE ISSUES	х		7	N	
SITE SECURITY					
FENCING		х			
GATES		X			
LOCKS		х			
SIGNS		х			
SITE		х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х			
BUILDING		х			
RECOVERY WELL		х			
ACCESS ROAD		х			
WASTE					
CARBON	х		Y	2	
SOLID	Х)	7	7	

							INSPECTION DATE: (-8-14
							INSPECTION BY: ELS
						T	
		1			INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
				OR			
GROUNDWATER SYSTEM	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	×	1	1	 		N	-
LOG SYSTEM OPERATING PARAMETERS	x			1	'	N	E
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x	1			V	l N	
TEST LEVEL CONTROLS ETC.	x				V	~	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x	Ť			7	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x	<u> </u>			Ÿ	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	×				Y	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	-		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	×				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	×				Y	N	
VERIFY PUMP OPERATION	×				Ý	V	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x	1				
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х				27	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	х				Y	2	
CHECK CARBON FILTER PRESSURES	х				Y	N	ü
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Y	~	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			х				
		_					

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
		970.44	-
		971 91	
			-
	TIME	TIME WATER LEVEL TOR	

> Water levels not recorded MW-301D submerged due to recort rain events

					INSPECTION DATE: 1/12/16 INSPECTION BY: Resmossen
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X			2	
EYEWASH STATION	Х		V	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х			N	
EMERGENCY LIGHTING	Х		V	N	
SITE ISSUES	х		/	N	
SITE SECURITY	-				
FENCING		х	V	N	
GATES		Х		N	
LOCKS		х	V	N	
SIGNS		Х		N	
SITE		х	V	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х			
BUILDING		Х			
RECOVERY WELL		Х		,	
ACCESS ROAD		Х			
WASTE			· · · · · · · · · · · · · · · · · · ·		
CARBON	Х			7	
SOLID	Х		V	N	

						-	INSPECTION DATE: V12/16 INSPECTION BY: M. Rasmussen
			· · · · · ·		INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	2
				OR			
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM	1.		ļ		7	N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				Ý	N	
LOG SYSTEM OPERATING PARAMETERS	x				У	M	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				У	N	
TEST LEVEL CONTROLS ETC.	x				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				У	Ń	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x		П		X	4	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS			-	x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х				У	M	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				4	Ń	\
VERIFY PUMP OPERATION	х				Ý	4	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA	-	х					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	x				Y	N	
CHECK CARBON FILTER PRESSURES	х				У	મ	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х	7.4			4	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				×			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				
							П
						_	

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	11:20	28.77	970.44	941.67
MW-414D	11:10	29.90	971.91	942.01
MW-413D	11:25	28.22	970.13	941.91
MW-416D	11:40	2392	965.84	941.92

					INSPECTION DATE: 1/21/16 INSPECTION BY:
	MINIMUM FE	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	8
SITE SAFETY				, ,	
FIRST AID KIT	Х		Y	\wedge	
EYEWASH STATION	Х		Ÿ	940	Needs to be Sekroshed.
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х	W.	Y	\sim	, 8
EMERGENCY LIGHTING	х		4	\sim	
SITE ISSUES	х		4	\sim	
SITE SECURITY			,		
FENCING	I	х			
GATES		х			
LOCKS		х			
SIGNS		х			
SITE		Х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х			
BUILDING		х			
RECOVERY WELL		х			
ACCESS ROAD		x			
WASTE					
CARBON	х		7	\wedge	
SOLID	Х		\'/	N	

							INSPECTION DATE: 1/2 1/16 INSPECTION BY: PO
*					INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D	
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM						i .	
/ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				7	\sim	to
LOG SYSTEM OPERATING PARAMETERS	х				4	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				7	N	
TEST LEVEL CONTROLS ETC.	x				Ý	\mathcal{N} .	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				1 4		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Ý	N.	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				4	N	
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х		,	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	мх				Y	\sim .	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Y	<i>N</i> .	
/ERIFY PUMP OPERATION	×				Y	\sim	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			'		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	х				Lγ	^/	
CHECK CARBON FILTER PRESSURES	х				1	\mathcal{N}	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				7	N	
AMP TRANSFER PUMP MOTORS				x	7		
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES		<u> </u>		x			
MANUALLY TEST SAFETY INTERLOCKS			x				
	1	+	 	-			

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION JOR
MW-301D	1330	28-80	970.44	941.64
MW-414D	1320	29.45	971.91	991.96
MW-413D	1360	28.32	970.13	941.81
MW-416D	1300	24.01	965.84	941.83

					INSPECTION DATE: 1-29-16 INSPECTION BY: MR	
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE		
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS	
	WEEK	MONTH	(YES or NO)	(YES or NO)		
SITE SAFETY			•		2_	
FIRST AID KIT	х		Y	N	#	
EYEWASH STATION	Х		Y	AY	- 950/Ution Needs to be Replace	A
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Υ	N		
EMERGENCY LIGHTING	Х		Υ	N		
SITE ISSUES	Х		Y	N		
SITE SECURITY				-	*	
FENCING		х	γ	N		
GATES		х	Ý	\ \		
LOCKS		х) }	N		
SIGNS		х	7	N	35	
SITE		х	Ý	14		
SITE GROUNDS			- 10	4		
DRAINAGE DITCHES/SWALES		х	N	N		
BUILDING		Х	N	N		
RECOVERY WELL		х	N	~		
ACCESS ROAD		х	N/	N		
WASTE						
CARBON	Х		7	N		
SOLID	Х		19	N		

· · · · · · · · · · · · · · · · · · ·			100				INSPECTION DATE: $1-29-19$ INSPECTION BY: $M.R.$
					INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
				OR			
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM					γ		
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				y	N	- Snall leak @ Efflier
LOG SYSTEM OPERATING PARAMETERS	х				Ý	H	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				Ý	N N	
TEST LEVEL CONTROLS ETC.	x				7	14	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Y	N.	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				4		
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				Ý	72	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	N		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	/x				MY	N	*
VISUALLY INSPECT ELECTRICAL SYSTEM	х				MY	N	
VERIFY PUMP OPERATION	x	123			V	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			N	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х			N	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х	N		
CHECK BAG FILTER PRESSURES	х				Y	N	-
CHECK CARBON FILTER PRESSURES	х				У	7	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				У.	N	
AMP TRANSFER PUMP MOTORS				x	N	N	
TRANSFER PUMPS - PERFORM P.M. SERVICE				х	N	N	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х	N	N	
CHECK & CALIBRATE INSTRUMENTATION				x	N	N	
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			х		N	N	41
	<u> </u>	<u> </u>			ļ		

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	16:00	30.30	970.44	940.14
MW-414D	15:55	31.75	971.91	940.16
MW-413D	16:10	March 18	29.75 970.13	940.18
MW-416D	16:20	25.61	965.84	940.23

					INSPECTION DATE: 2 5 116 INSPECTION BY: PP
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
533	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Y		
EYEWASH STATION	х		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Ý	M. Y	Eyewash needs replaced
EMERGENCY LIGHTING	Х		7	~,	
SITE ISSUES	х		Y	\sim	
SITE SECURITY			,		
FENCING		Х	*		
GATES		x			
LOCKS		х			
SIGNS		х			
SITE		Х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		x		^	
BUILDING		х			
RECOVERY WELL		х			
ACCESS ROAD		Х			
WASTE					
CARBON	Х		Y	\sim	
SOLID	Х		Y	\sim	

							INSPECTION DATE: 2/5/16 INSPECTION BY: 76
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
PERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х	<u> </u>			Y	\sim	
LOG SYSTEM OPERATING PARAMETERS	×				4	~,	
JSE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				4	~	
EST LEVEL CONTROLS ETC. '	х				4	\sim	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Y		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Y	~	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				Ý	\sim	
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTE	мх				Y	N.	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				. 4	N,	
ERIFY PUMP OPERATION	х	14			4	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х					
AMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x_				1	
NR STRIPPER - CHECK SOLIDS ACCUMULATION				x_	У	<i>N</i> .	
CHECK BAG FILTER PRESSURES	х				4	N.	
CHECK CARBON FILTER PRESSURES	х				Ý	N	
NR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х						
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
R STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			х				
<u> </u>		1					

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR	
MW-301D	1400	24.23	970.44	941.21	
MW-414D	1350	30.60	971.91	941.31	
MW-413D	1340	28.90	970.13	941-23	
MW-416D	1336	24-61	965.84	941.23	

2 2					INSPECTION DATE: 2/12/16 INSPECTION BY: WJR
	MINIMUM I	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	Х		У	N	
EYEWASH STATION	х		У	Υ	Solution needs to be replaced
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Ý	N	
EMERGENCY LIGHTING	х		У	N	
SITE ISSUES	Х		y	N	
SITE SECURITY			<u> </u>	•	
FENCING		х			
GATES		_ x			
LOCKS		х			
SIGNS		х			
SITE		Х			
SITE GROUNDS					×
DRAINAGE DITCHES/SWALES		x			
BUILDING		х			
RECOVERY WELL		Х			
ACCESS ROAD		х			
WASTE					
CARBON	х		У	N	
SOLID	Х		Ý	N	

					· -		INSPECTION DATE: INSPECTION BY:	2/12/16 WJR
		50			INSPECTED/ CORRECTIVE		COMMENTS	
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D		
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)		
GROUNDWATER SYSTEM								
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OF LEAKS	х				Y	7		
LOG SYSTEM OPERATING PARAMETERS	х				y	٨		
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х			3	ý	2		-
TEST LEVEL CONTROLS ETC.	х				У	N		
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Ý	N		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				У	N		
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				Ý	N		
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х			Test Trip Set Point and Clea	in Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	×	2		0	У	N		
VISUALLY INSPECT ELECTRICAL SYSTEM	×				γ	N		
/ERIFY PUMP OPERATION	х				У	N		
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x						
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x				
CHECK BAG FILTER PRESSURES	х				Y	7		
CHECK CARBON FILTER PRESSURES	x				ý	N		
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				Ý	N		
AMP TRANSFER PUMP MOTORS				x				
TRANSFER PUMPS - PERFORM P.M. SERVICE				x				···
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х				
CHECK & CALIBRATE INSTRUMENTATION				x				
MANUALLY OPERATE & CHECK VALVES				x				
MANUALLY TEST SAFETY INTERLOCKS			x					
	-	-	-	 -				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1750	29.90	970.44	940.54
MW-414D	1710	31.18	971.91	940.73
MW-413D	1740	29.49	970.13	940.14
MW-416D	1720	25.23	965.84	940.61

				ECTION CHECKERS	INSPECTION DATE: 2-19-14 INSPECTION BY: M.R.
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
51	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Y	N	
EYEWASH STATION	х		7	2	-Changed Solution
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		7	7	0
EMERGENCY LIGHTING	х		Y	N	
SITE ISSUES	Х		7	7	₫
SITE SECURITY					
FENCING		х	У	N	
GATES		x	Ý	1 7	
LOCKS		x	У	N	
SIGNS		x	Y	N	(4)
SITE		х	7	N	
SITE GROUNDS	ı		,		
DRAINAGE DITCHES/SWALES		х	У	700	
BUILDING		х	У	2	
RECOVERY WELL		Х	7	N	
ACCESS ROAD		Х	٧	N	
WASTE					
CARBON	х		Y	N	
SOLID	х		4	7	9

							INSPECTION DATE: 2/19/16 INSPECTION BY: M. RASWUSSELL	
	<u> </u>			,	INSPECTED/	CORRECTIVE	COMMENTS	
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D		
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	2 1	
GROUNDWATER SYSTEM					Y	7	- Leak @ Effluent T", L	eak @ B.F. Lid, order
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				y	12		new bolte & nuts
LOG SYSTEM OPERATING PARAMETERS	х				У	2		, , , , , , , , , , , , , , , , , , , ,
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				Y	2		
TEST LEVEL CONTROLS ETC.	х				Y	N		
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				4	2		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	7		
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				Ý	N		
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х	N	N	Test Trip Set Point and Clean Screens and Louvers	
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	×				У	2		
VISUALLY INSPECT ELECTRICAL SYSTEM	х				ý			
VERIFY PUMP OPERATION	x				2	N		
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA	<u> </u>	х	<u> </u>		N	N		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х			12	N		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х	1	N		
CHECK BAG FILTER PRESSURES	x	ļ			Y	N		
CHECK CARBON FILTER PRESSURES	х			<u> </u>	1	N		
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				I	N		
AMP TRANSFER PUMP MOTORS			ļ.,	х	N	IV		
TRANSFER PUMPS - PERFORM P.M. SERVICE				х	N	12		er in the second
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х	N	LV		
CHECK & CALIBRATE INSTRUMENTATION				х	2	N		
MANUALLY OPERATE & CHECK VALVES				х	1)	N		
MANUALLY TEST SAFETY INTERLOCKS			х		N	N		
		ļ						

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	0:50	30.39	970.44	940.05
MW-414D	10:00	31.72	971.91	940.19
MW-413D	10:12	30.03	970.13	940.08
MW-416D	10:20	24.78	965.84	941.06

					INSPECTION DATE: 2-26-16 INSPECTION BY: MR
" "	MINIMUM I	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		V	N	
EYEWASH STATION	х			N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х		V	12	162
EMERGENCY LIGHTING	х		/	N	
SITE ISSUES	х			N	200
SITE SECURITY				-	
FENCING		Х	V	N N	
GATES		х	1	N	
LOCKS		х	V	N	
SIGNS		x	レ	N	
SITE		х		Ň	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	V	N	
BUILDING		/4 X	~	N	
RECOVERY WELL		х		N	
ACCESS ROAD		х	V	N	
WASTE				,	•
CARBON	х		V	N	
SOLID	х			N	

	0						INSPECTION BY: MR	-
			7	1	INSPECTED/	CORRECTIVE	COMMENTS	1
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D		
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)		1
GROUNDWATER SYSTEM						iū.		1
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				Y	K	Replaced Bolt on B.F.	م 44
LOG SYSTEM OPERATING PARAMETERS	х			A	Y	100	1	7''
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				Ý	1kJ		1
TEST LEVEL CONTROLS ETC.	х			8	Y	W		
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Ý	W		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	10		1
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				Ý	K)		
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	*N	-)	Test Trip Set Point and Clean Screens and Louvers	1
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	×				У	K		1
VISUALLY INSPECT ELECTRICAL SYSTEM	x				У	7		
VERIFY PUMP OPERATION	х				4	2		1
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			2	_		1
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			2	-		1
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х	N		19	7
CHECK BAG FILTER PRESSURES	x		<u> </u>		¥	12	(4]
CHECK CARBON FILTER PRESSURES	х				À	2		7
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				Y	2	N. C.	1
AMP TRANSFER PUMP MOTORS				x	V	_		7
TRANSFER PUMPS - PERFORM P.M. SERVICE				х	7)		7
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х	N	_]
CHECK & CALIBRATE INSTRUMENTATION				x	N	_		· s
MANUALLY OPERATE & CHECK VALVES				x	N	¥		7
MANUALLY TEST SAFETY INTERLOCKS			x		N	_		7
		012				· .		┨

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	16:30	25.80	970.44	934.64
MW-414D	16:35	27.25	971.91	944.66
MW-413D	16:40	25.45	970.13	944.68
MW-416D	16:45	21.15	965.84	944.69

					INSPECTION DATE: 3-4-16 INSPECTION BY:
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	4
SITE SAFETY			1		
FIRST AID KIT	х		У	\sim	
EYEWASH STATION	Х		γ	~	
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х		У	~	
EMERGENCY LIGHTING	х		Y	~	
SITE ISSUES	Х		Y	\sim	
SITE SECURITY					
FENCING		х			
GATES		_ X			
LOCKS		х			
SIGNS		х			
SITE		х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		Х			
BUILDING		х			
RECOVERY WELL		Х			
ACCESS ROAD		Х			
WASTE					-
CARBON	Х		7	\sim	
SOLID	Х		4	- 1	20

							INSPECTION DATE: 3-4-16 INSPECTION BY: PC
		-,			INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D	
**************************************	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM	-				<u> </u>		
PERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х	1	<u> </u>		 }	//	
LOG SYSTEM OPERATING PARAMETERS	х	<u> </u>	<u> </u>		\ <u>`</u>	<u> </u>	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х	ļ			7	~	
TEST LEVEL CONTROLS ETC.	х	<u> </u>	<u> </u>		<u> </u>	~	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Y	\sim	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Y	\sim	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				L 4	\sim	
NSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x		,	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	4×				Y	\\\\.	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				4	N,	
VERIFY PUMP OPERATION	x				14	~	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		×					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	х				V	\display.	
CHECK CARBON FILTER PRESSURES	x				¥	N	-
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				4	\sim	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			х				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	80	25.80	970.44	
MW-414D			971.91	
MW-413D		=	970.13	
MW-416D			965.84	

& WLS not securated. Ground Satuated

	7.				INSPECTION DATE: 3-9-16 INSPECTION BY: PP
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
7.	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					-
FIRST AID KIT	Х		У	N	
EYEWASH STATION	х		Y	\sim	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Y	\sim	n
EMERGENCY LIGHTING	Х		7	~	
SITE ISSUES	х		4	N	
SITE SECURITY					
FENCING		х			
GATES		х			
LOCKS		х			
SIGNS		х			
SITE		х		-	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		Х			
RECOVERY WELL		Х		151	
ACCESS ROAD		х			
WASTE					
CARBON	х		Y	N	
SOLID	x	T	7	1	

						·	INSPECTION DATE: 3-9-16 INSPECTION BY:
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM					, , , , , ,		
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				V	<i>N</i> .	
LOG SYSTEM OPERATING PARAMETERS	х				4	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				7	N,	
TEST LEVEL CONTROLS ETC.	х				Y	1	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				L Y	<i>N</i> .	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				4	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x	L.			Å	<i>N</i> .	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				4	N	
VERIFY PUMP OPERATION	x				4	\mathcal{N}	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	х				Y	N.	
CHECK CARBON FILTER PRESSURES	x				Y		
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				4		
AMP TRANSFER PUMP MOTORS				x	ľ	1	
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS	-	-	x				
							-

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D			970.44	
MW-414D			971.91	
MW-413D			970.13	
MW-416D			965.84	

			-	W.	INSPECTION DATE: 3/18/16 INSPECTION BY: PP
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY		•		- ,	
FIRST AID KIT	х		1 4		
EYEWASH STATION	Х		Y	/	
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х		Y	~	
EMERGENCY LIGHTING	Х		4	~	
SITE ISSUES	Х		4	~	
SITE SECURITY					
FENCING		х			
GATES	11.	х	<u>-</u>		
LOCKS		х		70	
SIGNS		х			
SITE		х			
SITE GROUNDS				270	
DRAINAGE DITCHES/SWALES		х			
BUILDING		x			
RECOVERY WELL		х			
ACCESS ROAD		х			
WASTE					
CARBON	Х		Y	\sim	
SOLID	Х		Ý	\sim	195

			•				INSPECTION DATE: 3//8/16 INSPECTION BY:
					INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR AS REQD(1)	(YES) OR (NO)	MEASURES REQ'D (YES or NO)	
GROUNDWATER SYSTEM	WEEK	MOICITI	MONTIS	AS NEGD(I)	(1E3) OR (NO)	(TES OF NO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				V	N	
LOG SYSTEM OPERATING PARAMETERS	×				Ý	~	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				*	~	
TEST LEVEL CONTROLS ETC.	x				Ÿ	/	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				4	Ν,	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х	2			Y	7	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х	19		:	Ý	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS	ľ	1		х	1		Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTE	мх		I		y	~	
VISUALLY INSPECT ELECTRICAL SYSTEM	x		<u> </u>		*	N	1/
VERIFY PUMP OPERATION	x				Y	~	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			/		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	х				Y	N	
CHECK CARBON FILTER PRESSURES	х				Ý	\sim	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х	1.			Ý	7	(6)
AMP TRANSFER PUMP MOTORS				х	/		
TRANSFER PUMPS - PERFORM P.M. SERVICE	1			х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION		ļ		х			
CHECK & CALIBRATE INSTRUMENTATION				х			- 4
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			x	-			
	+	 	1	-			

Notes:

5 25·20 WATER LEVEL TOR WATER ELEVATION TOR

WATER ELEVATION TOR

945.24 WELL ID TOR ELEVATION TIME MW-301D 970.44 1410 MW-414D 971.91 1405 970.13 1400 965.84

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

**					INSPECTION DATE: 3/25/16 INSPECTION BY: ELS
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
=	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY	•			, ,	
FIRST AID KIT	х		У	N	
EYEWASH STATION	х		У	, N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		7	N	SERVICE NEED APRIL 2016 EKTINGUSTER
EMERGENCY LIGHTING	х		7	N	
SITE ISSUES	X		7	~	
SITE SECURITY					
FENCING	I	X	7	N	
GATES		х	y	2	
LOCKS		х	7	N	
SIGNS		Х	Y	N	
SITE		х	7	N	
SITE GROUNDS				5.00	
DRAINAGE DITCHES/SWALES		Х	4	N	
BUILDING		х	Y	N	
RECOVERY WELL		Х	У	N	
ACCESS ROAD		Х	Y	7	
WASTE					
CARBON	Х		4	N	
SOLID	Х		Ÿ	N	

							INSPECTION DATE: 3/25/16 INSPECTION BY: ELS
		L	T	I	INSPECTED/	CORRECTIVE	COMMENTS
2	EVERY WEEK	EVERY	EVERY 3	MIN. 6 MO. OR AS REQD(1)	(YES) OR (NO)	MEASURES REQ'D (YES or NO)	
GROUNDWATER SYSTEM	WEEK	IIIOIIIII	MONTHS	AS TIESE(1)	(125) OIT (NO)	(TES OF NO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x		1		7	N	
LOG SYSTEM OPERATING PARAMETERS	×				4	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х		1		4	N	
TEST LEVEL CONTROLS ETC.	x				4	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Ý	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x		1		Ÿ	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				7	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				Y	N	
VERIFY PUMP OPERATION	x				Ÿ	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			'Y	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х			7	V	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION	1			x			
CHECK BAG FILTER PRESSURES	x				У	7	
CHECK CARBON FILTER PRESSURES	х				Y	~	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				Ÿ	2	
AMP TRANSFER PUMP MOTORS	1			x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			x		4	N	
		-					

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D			970.44	
MW-414D			971.91	
MW-413D			970.13	
MW-416D			965.84	

* Water levels not recorded MW-3101D Submarged due to recent rain event.

					INSPECTION DATE: 3-30-16 INSPECTION BY: M; Le Rasmusser	
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE		
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS	
	WEEK	MONTH	(YES or NO)	(YES or NO)		
SITE SAFETY						
FIRST AID KIT	х		У	N		
EYEWASH STATION	x		7	, X		
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Ý	14	- New Fire Extinguister needed	1 Inadai
EMERGENCY LIGHTING	Х		Y	N	O O	1 4.11
SITE ISSUES	х		Y			
SITE SECURITY						
FENCING		Х	Y	H		
GATES		х	Y	N		
LOCKS		х	Y	7		
SIGNS		x	Y	M		
SITE		х	Y	N		
SITE GROUNDS						
DRAINAGE DITCHES/SWALES		Х	Y	*N		2.
BUILDING		Х	Ÿ	90		
RECOVERY WELL		Х	N.	NA		()
ACCESS ROAD		Х	l Y	7		177
WASTE						
CARBON	х		7	V		
SOLID	х		Y	H	- Trash taken to Post 3 & Dunpul	

							INSPECTION DATE: 3-30-16 INSPECTION BY: Mile Resmusser	
					INSPECTED/	CORRECTIVE	COMMENTS	1
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D		
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)		
GROUNDWATER SYSTEM					Y	N	- Small Leaks my some Ban;	Eitims May won
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				Ý	N		ta
LOG SYSTEM OPERATING PARAMETERS	х				Υ	7		10 tebrace Littings
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				Υ	N		1
TEST LEVEL CONTROLS ETC.	x				Ý	N		1
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x		1.		У	M		1
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х .				4	2	+ Add Grate to Floor of Drain	Basin
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				7,	K		1
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х	7	NA	Test Trip Set Point and Clean Screens and Louvers	1
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	м×		1.		Y	7		1
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Y	Ň		1
VERIFY PUMP OPERATION	х				Y	٧		1
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			N	AU		1
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			N	NA		1
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x	N	NA		1
CHECK BAG FILTER PRESSURES	х				Y	M]
CHECK CARBON FILTER PRESSURES	х				4	N		1
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				Ý	N		1
AMP TRANSFER PUMP MOTORS				х	N	44		
TRANSFER PUMPS - PERFORM P.M. SERVICE				X -	N	NA		
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x	N	NA]
CHECK & CALIBRATE INSTRUMENTATION				х	N	AIA]
MANUALLY OPERATE & CHECK VALVES				х	N	AN]
MANUALLY TEST SAFETY INTERLOCKS	ļ		х		12	JA]
	ļ]
								1

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	0:30	26.47	970.44	943.97
MW-414D	10:40	27.81	971.91	944.10
MW-413D	10:50	26.08	970.13	944.05
MW-416D	11:00	21.85	965.84	943.99

Attachment F Bedrock Groundwater Migration Control System Shutdown Reports

REASON FOR REPORT: Manual Shit de REASON FOR SHUTDOWN:	omponent: Caubon Veuclo
BY: PP SYSTEM NAME: GWNC SYSTEM CO REASON FOR REPORT: Manual Shit de REASON FOR SHUTDOWN:	
REASON FOR REPORT: Manual Shit de REASON FOR SHUTDOWN:	
REASON FOR REPORT: Manual Shit de REASON FOR SHUTDOWN:	
	-
Ballwash	
r Coubon Vevel. System barre	lover preuver bried ut
SHUTDOWN DATE & TIME: $10/23/15$ (a), 10	30
START-UP DATE & TIME: 10/23/15 0 13 COMMENTS/SUGGESTIONS:	20
REQUIRED REPORT NOTIFICATION PER SECTION 4.0	
IMMEDIATE NON-CRITICAL ROU	TINE
INDIVIDUAL NOTIFIED ACTION/RESPONSE	

DATE: 10-28-(5
TIME: (000
BY: EUS
SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH
REASON FOR REPORT: Automotic Shut down
REASON FOR SHUTDOWN: Kir Stripper Level Switch High High Alarm
triggered from area run event
ACTION TAKEN: Pumped down air stripper; changed by filters and
turned system back on.
SHUTDOWN DATE & TIME: 10/27/15 18:06
START-UP DATE & TIME: 10/28/15 11:40
COMMENTS/SUGGESTIONS:
v - 1 0
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

<u></u>
DATE: 11-1-15
TIME: 11:00
BY: ELS
SYSTEM NAME: GWMC SYSTEM COMPONENT: AS LSHK
REASON FOR REPORT: Automotic System Shutdown
*
REASON FOR SHUTDOWN: Air Stripper Lovel Switch High Triggered.
ACTION TAKEN: Pump down sight glass, change bug filters and
restart system
SHUTDOWN DATE & TIME: 11/15 00:35
START-UP DATE & TIME: 11/1/5 10:15
COMMENTS/SUGGESTIONS:
10
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

la contraction of the contractio
DATE: 11-6-15 TIME: 1145
BY: EUS
SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH REASON FOR REPORT: Automatic Shufdown
REASON FOR SHUTDOWN: Air Stripper Level Switch High High Alaran Rein evant
ACTION TAKEN: Pump down sife glace, change bag Filters,
SHUTDOWN DATE & TIME: ハーローパ つみ: 5억
START-UP DATE & TIME: 11-6-15 11:30
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED ACTION/RESPONSE

DATE: 11-20-15
TIME: (6:15
BY: EUS
R .
SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH
REASON FOR REPORT: AUTOMATIC SHUTDOWN
REASON FOR SHUTDOWN: Le STRIPPER LEVER SWITCH HIGH
ALARM TRIGGERED -
ACTION TAKEN: PUMP DOWN SILHT GLASS CHANGE BAG FICTERS.
CHANGE OUT CHEBON PUMP, REPLACE ELECTRICAL WIRING
CHECKED SYSTEM FOR BLOCKAGE, RESTART SYSTEM.
SHUTDOWN DATE & TIME: ハーハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー
START-UP DATE & TIME: (1/20/15 /5149
COMMENTS/SUGGESTIONS:
CLEAN OUT BUTTOM OF ALL STRIPPER SUMP
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 12-8-15
TIME:
BY: ECS
SYSTEM NAME: GWMC SYSTEM COMPONENT: CARBUI
REASON FOR REPORT: MANUAL SHUT DOWN FOR SYSTEM BACKWASH
REASON FOR SHUTDOWN: SYSTEM BALKWASH OF CARBON VESSELS
99
ACTION TAKEN: BACKWASH CARBIN VESSELS, CHANGE BAG FILTERS
RESTALT SYSTEM.
SHUTDOWN DATE & TIME: 12/8/15 10:50
START-UP DATE & TIME: 12 8 15 14:22
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 12-9-15
TIME: /6=30
BY: WIR
SYSTEM NAME: GWMC SYSTEM COMPONENT: MC Piping
REASON FOR REPORT: Manual Shutdown
REASON FOR SHUTDOWN: Piping modifications at As Transfer Pump
. 5
ACTION TAKEN: Assembled fittings
SHUTDOWN DATE & TIME: 12/9/15 14:05
SHUTDOWN DATE & TIME: 12/9/15 14:05 START-UP DATE & TIME: 12/9/15 16:00
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 12/15/15
TIME: 14 010
BY: P
SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH
REASON FOR REPORT:
Automatic shut down
REASON FOR SHUTDOWN:
ASLSHH alaem trypered
ACTION TAKEN:
change BF, Rump down AS sump
SHUTDOWN DATE & TIME: 12/15/15 @ 48345 1330
SHUTDOWN DATE & TIME: /2/15/15 @ 43345 1330 START-UP DATE & TIME: /2/15/15 @ /340
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 12-21-15
TIME: @:30
BY: ELS
SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLEAN
REASON FOR REPORT: AUTOMOTIC SHUTBOWN ALARM
REASON FOR SHUTDOWN: Die Stelpper Level Switch HIGH HEH ALAEA
Tenghazep
·
ACTION TAKEN: Pump Down Sight- Glass, Change bag filters,
resturt system
SHUTDOWN DATE & TIME: 12/21/15 10:38
START-UP DATE & TIME: 12/15 12:10
COMMENTS/SUGGESTIONS:
COMMENTS/SUGGESTIONS.
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 1/19/16	
TIME: 1530	
BY:	
SYSTEM NAME: GWMC SYSTEM COMPONENT: Caubon Vel	els
REASON FOR REPORT:	
Manual Shut Slown.	T.
DEACON FOR CHUTDOWN.	
REASON FOR SHUTDOWN:	
Perform Ballwash. to Mi Reduce ball presero in a	boon
ACTION TAKEN:	revel.
Conduded Ballwash.	
Concerta scena as	
SHUTDOWN DATE & TIME: 1/19/16 @ 1030	
START-UP DATE & TIME: 1/19/16 @ 1500	
COMMENTS/SUGGESTIONS:	
REQUIRED REPORT NOTIFICATION PER SECTION 4.0	
IMMEDIATENON-CRITICALROUTINE	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

DATE: 1-25-16
TIME: //:00
BY: ELS
SYSTEM NAME: GWMC SYSTEM COMPONENT: SMPLSH
REASON FOR REPORT: Automatic Shutdown due to Sump level Switch high
alarm.
REASON FOR SHUTDOWN: Simp pump Filed to pump water out of simp - water
due to small look from Banjo Atting to effluent.
ACTION TAKEN: Fixed sump pump to pump wow out of sump; Changed
bog filters; turned system back on. Banjo filting to be replaced poter
SHITDOWN DATE & TIME: 1 And London
SHUTDOWN DATE & TIME: المرا عدا الماد الم
COMMENTS/SUGGESTIONS:
Comment 13/30dd L3 11043.
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

	ļ:
DATE: 2.3-16	
TIME: \0:\5	
BY: MP	
SYSTEM NAME: GWMC SYSTEM COMPONENT: Closed Bay	Filter
REASON FOR REPORT: Automatic Shutdown	
REASON FOR SHUTDOWN: 1980 - Closed Bag Filters	
REASON FOR SHUTDOWN: 1981/1980 - Clogged Bag Filters Increase in O.B. Ise to Large Rain Event	
ACTION TAKEN: Change Bay Filters, Clean Sight Glass	
Restart	
SHUTDOWN DATE & TIME: 2-3-16 @ 00:40	
START-UP DATE & TIME: 2-3-14 @ 10:10	
COMMENTS/SUGGESTIONS:	
Get Brush to Clean Sight Glass	
<u> </u>	
REQUIRED REPORT NOTIFICATION PER SECTION 4.0	
IMMEDIATE NON-CRITICAL ROUTINE	
ACTION/RESPONSE Non-	
ACTION/RESPONSE Non-	
e e	

DATE: 2 24 1/16
TIME: 1210
BY: PP
SYSTEM NAME: GWMC SYSTEM COMPONENT: A SUSHH
REASON FOR REPORT:
Automatic Shit down
REASON FOR SHUTDOWN:
Rain event; Caucel ASISHH to lugger
to lugger
ACTION TAKEN:
Pump down AS Sump; Change BF:
Re-start system
Pump down AS Sump; Charge BF; Re-start System SHUTDOWN DATE & TIME: 0440; 2/24/16 START-UP DATE & TIME: 1145; 2/24/16
START-UP DATE & TIME: 1145 : 2124116
COMMENTS/SUGGESTIONS:
· ·
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 3/21/2016
TIME: 21:00
BY: ELS
SYSTEM NAME: 6 WME SYSTEM COMPONENT: Holding Tourk
REASON FOR REPORT: MANUAL SHUTTOWN FOR ACED WATH
REASON FOR SHUTDOWN: ALL D WASH
ACTION TAKEN: STETEM ACIO WASH BY HERITAGE.
SHUTDOWN DATE & TIME: 3/31/19 07:06
START-UP DATE & TIME: 3/ンメートリック・30
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

· · · · · · · · · · · · · · · · · · ·
DATE: 3 25 (ιω
TIME:
BY: ECS
SYSTEM NAME: GWAC SYSTEM COMPONENT: HOSES & FITTINGS
REASON FOR REPORT: MANUAL SHUTDOWN FOR HOSE REPAIRS
REASON FOR SHUTDOWN: MAINTENANCE OF HOSEI & FITTINGS THAT
ARC LEAKING
•
ACTION TAKEN: REPLACE LEAKING FITTING & HOSES
SHUTDOWN DATE & TIME: 3/26/2014 (0:47
START-UP DATE & TIME: 3/25/2016 13:20
COMMENTS/SUGGESTIONS:
DECLUDED DEDOCT NOTIFICATION DED OFFICIAL A
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE
MOTORIAL STOP

DATE: 3-30-16	
TIME: 8:30	
BY: M.R.	
SYSTEM NAME: GWMC SYSTEM COMPONENT: Sump Pump	
REASON FOR REPORT: Automatic Shutdown Sump Punp	
High level Switch	
8	
REASON FOR SHUTDOWN:	
Sump Pump High Level Switch	
Sump Pump High Level Switch, Pump clogged	
ACTION TAKEN: - Re Set & unclos sump pump	
action taken: - Re Set & unclos sump pump, Change Bag Filters, Restart System	
1	
SHUTDOWN DATE & TIME: 3-29-16 @ ZO:22	
START-UP DATE & TIME: 3-30-16 @ 09:00	
COMMENTS/SUGGESTIONS:	
- Set Grill or Grate underneith	
Sump Pump, keep bottom of sump off the flo	10
REQUIRED REPORT NOTIFICATION PER SECTION 4.0	
IMMEDIATE NON-CRITICAL ROUTINE	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

Attachment G Project Schedule

Task Name	% Complete Duration Start Finish	2002 2003 2004	2005	2006 20	07 2008 2009		2011	2012	2013	2014 2015 /
eamlined Order Executed	100% 0 days Tue 1/22/02 Tue 1/22/02 4-1/2	2002 2003 2004 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Q	Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2	Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Q	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr	1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2
	100% 0 days Tue 1/22/02 Tue 1/22/02									
ect Manager Designation	100% 11 days Tue 1/22/02 Tue 2/5/02									
m Measure & Implementation Report	100% 65 days Tue 1/22/02 Mon 4/22/02									
eport - Human Exposures: AOC Deadline 12/31/03	100% 1 day Thu 12/18/03 Thu 12/18/03	♦ 12/18								
port - GW Stabilization: AOC Deadline 12/31/04	100% 1 day Fri 11/12/04 Fri 11/12/04		♦ 11/12							
Corrective Measures Proposal: Extension Granted to 1/30/06	100% 1 day Mon 1/30/06 Mon 1/30/06		· ·							
e Year Assessment Report 1	100% 0 days Sun 6/27/10 Sun 6/27/10					♦ 6/27				
e Year Assessment Report 2	100% 0 days Wed 8/7/13 Wed 8/7/13								♦ 8/7	
e Year Assessment Report 3	0% 0 days Mon 6/27/16 Mon 6/27/16								•	
site Groundwater Investigation	100% 353 days Tue 1/22/02 Thu 5/29/03									
erburden Groundwater Migration Control Interim Measure	100% 206 days Mon 4/7/03 Fri 1/16/04		<u> </u>				-			
V Stabilization El Monitoring (2 mos)	100% 87 days Wed 6/2/04 Thu 9/30/04	· · · · · · · · · · · · · · · · · · ·								
site Investigation Work Plan										
	100% 114 days Tue 1/22/02 Fri 6/28/02	_								
site Work Plan Implementation	100% 631 days Mon 7/1/02 Fri 11/26/04		~							
vironmental Indicators Reports	100% 366 days Mon 6/23/03 Fri 11/12/04	P	₩							
vestigation Report	100% 340 days Tue 2/15/05 Mon 6/5/06		—							
erim Measures	100% 1284 days Mon 8/5/02 Fri 6/29/07	V								
W Migration Control O&M	92% 2616 days Mon 1/1/07 Sat 12/31/16									
GW Migration Control O&M 5	100% 264 days Mon 1/1/07 Mon 12/31/07									
GW Migration Control O&M 6	100% 262 days Tue 1/1/08 Wed 12/31/08									
GW Migration Control O&M 7	100% 261 days Thu 1/1/09 Thu 12/31/09		1							
GW Migration Control O&M 8	100% 261 days Fri 1/1/10 Fri 12/31/10		+	1			+			
GW Migration Control O&M 9	100% 261 days Sat 1/1/11 Fri 12/30/11		+	<u> </u>	 					
GW Migration Control O&M 10	100% 262 days Sun 1/1/12 Mon 12/31/12		+	+	+		-			
GW Migration Control O&M 11	100% 261 days Tue 1/1/13 Tue 12/31/13		+	+	+	+				
GW Migration Control O&M 12	100% 261 days Wed 1/1/14 Wed 12/31/14		+		+	+				
GW Migration Control O&M 12 GW Migration Control O&M 13	100% 261 days Wed 1/1/14 Wed 12/31/14 100% 261 days Thu 1/1/15 Thu 12/31/15									<u> </u>
GW Migration Control O&M 13 GW Migration Control O&M 14							-			
GW NIIGIAUON CONTROL OAW 14	25% 262 days Fri 1/1/16 Sat 12/31/16									
IADI December Desire Duils'	4000/ 446 : 25 00000									
APL Recovery Design Build	100% 446 days Mon 9/30/02 Fri 6/11/04									+
rrective Measure Proposal	100% 350 days Mon 2/28/05 Fri 6/30/06		Q							
cond Sand Recovery Design Build	100% 1400 days Fri 1/27/06 Wed 6/1/11									
Geoprobe and Recovery Well Install	100% 8 days Fri 1/27/06 Tue 2/7/06			<u> </u>						
Pump Tests	100% 100 days Mon 11/13/06 Fri 3/30/07									
Prepare Engineering Assessment	100% 20 days Mon 4/2/07 Thu 4/26/07			<u> </u>						
Preliminary Design and System Siting	100% 80 days Fri 4/27/07 Wed 8/15/07			2						
Interim System Design	100% 2 wks Wed 8/15/07 Tue 8/28/07									
Interim System Install/Start-up	100% 8 days Wed 8/29/07 Fri 9/7/07									
Permanent System Final Design	100% 535 days Mon 9/10/07 Fri 9/25/09									
Procurement (RFQs, Bid Review, Componenet Purchases)	100% 75 days Mon 7/6/09 Fri 10/16/09									
Permitting (NPDES)	100% 30 days Mon 9/7/09 Fri 10/16/09									
Build System	100% 26 days Sat 11/7/09 Mon 12/14/09					_				
System Start-up	100% 10 days Mon 12/14/09 Fri 12/25/09		<u> </u>				-			
Construction Completion Report	100% 10 days Mon 1/2/14/09 FH 1/2/23/09 100% 92 days Mon 3/8/10 Tue 7/13/10					-				
Updated O&M Plan	100% 324 days Mon 3/8/10 Wed 6/1/11									
Opulated Oddivi Filani	10070 324 days Wildi 3/0/10 Wed 0/1/11									
uarterly GW Sampling	91% 1386 days Mon 4/4/11 Fri 7/22/16									
Quarterly GW Sampling 38	100% 2 wks Mon 4/4/11 Fri 4/15/11						8			
Quarterly GW Sampling 39	100% 2 wks Tue 7/5/11 Mon 7/18/11						•			
Quarterly GW Sampling 39 Quarterly GW Sampling 40							•			
							•			
Quarterly GW Sampling 41	100% 2 wks Mon 1/2/12 Fri 1/13/12						9	_		
Quarterly GW Sampling 42	100% 2 wks Mon 4/2/12 Fri 4/13/12							9		
Quarterly GW Sampling 43	100% 2 wks Mon 7/16/12 Fri 7/27/12							9		
Quarterly GW Sampling 44	100% 2 wks Mon 10/15/12 Fri 10/26/12							•		
Quarterly GW Sampling 45	100% 2 wks Mon 1/7/13 Fri 1/18/13)	
Quarterly GW Sampling 46	100% 2 wks Mon 4/1/13 Fri 4/12/13								•	
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Quarterly GW Sampling 48	100% 2 wks Mon 10/14/13 Fri 10/25/13									
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Quarterly GW Sampling 51	100% 2 wks Mon 7/14/14 Fri 7/25/14			i						8
Quarterly GW Sampling 52	100% 2 wks Mon 10/13/14 Fri 10/24/14			İ						
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Quarterly GW Sampling 55	100% 2 wks Mon 7/13/15 Fri 7/24/15		1	<u> </u>			1			
Quarterly GW Sampling 56	100% 2 wks Mon 10/12/15 Fri 10/23/15		+	+		<u> </u>	+			
Quarterly GW Sampling 57	100% 2 wks Mon 1/11/16 Fri 1/22/16		+	1	+	+	+			a la
Quarterly GW Sampling 58	0% 2 wks Mon 4/11/16 Fri 4/22/16		+	<u> </u>	+	1				
Quarterly GW Sampling 59	0% 2 wks Mon 7/11/16 Fri 7/22/16		+		- 	<u> </u>	+			
, , , ,			+		- 	<u> </u>	+			
ogress Reports	100% 1568 days Thu 4/15/10 Fri 4/15/16		+	+	+	+	+			
Progress Reports 28	100% 1368 days Thu 4/15/10 Thu 4/15/10		+	+	+		+			
Progress Reports 29	100% 0 days Fri 10/15/10 Fri 10/15/10		+	<u> </u>	+	♦ 10/15	+			
Progress Reports 30	100% 0 days Fri 4/15/11 Fri 4/15/11		+	+	+	▼ 10/15	♦ 4/15			
Progress Reports 30	100% 0 days Sat 10/15/11 Sat 10/15/11									
rogress Reports 31	100% 0 days Sat 10/15/11 Sat 10/15/11 100% 0 days Sun 4/15/12 Sun 4/15/12						♦ 10/15	A 445		
								♦ 4/15		
Progress Reports 32								♦ 10/1	A 107	
rogress Reports 33	100% 0 days Mon 4/15/13 Mon 4/15/13								♦ 4/15	<u> </u>
rogress Report 34	100% 0 days Tue 10/15/13 Tue 10/15/13								♦ 10/1:	
Progress Report 35	100% 0 days Tue 4/15/14 Tue 4/15/14									♦ 4/15
Progress Report 36	100% 0 days Wed 10/15/14 Wed 10/15/14									♦ 10/15
Progress Report 37	100% 0 days Wed 4/15/15 Wed 4/15/15			1						♦ 4/15
Progress Report 38	100% 0 days Thu 10/15/15 Thu 10/15/15			İ						♦ 10/15
Progress Report 39	100% 0 days Fri 4/15/16 Fri 4/15/16			İ						◆ 4
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Project: MAHLE Behr Dayton LLC, Vandalia, OH